Exhibit A1 Public Redacted Version

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UNITED STATES DISTRICT COURT 1 NORTHERN DISTRICT OF CALIFORNIA 2 SAN FRANCISCO DIVISION 3 4 5 Case No. 3:21-md-02981-JD IN RE GOOGLE PLAY STORE 6 ANTITRUST LITIGATION PLAINTIFFS' PROPOSED REMEDY RE 7 THIS DOCUMENT RELATES TO: GOOGLE'S DESTRUCTION OF CHAT **EVIDENCE** 8 Epic Games, Inc. v. Google LLC et al., Case No. 3:20-cv-05671-JD 9 Judge: Hon. James Donato In re Google Play Consumer Antitrust Litigation, Case No. 3:20-cv-05761-JD 10 11 State of Utah et al. v. Google LLC et al., Case No. 3:21-cv-05227-JD 12 Match Group, LLC et al. v. Google LLC et al., Case No. 3:22-cv-02746-JD 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

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INTRODUCTION

After several rounds of briefing, two evidentiary hearings that included the testimony of four Google employees and a production of over 210,000 additional documents, this Court made the following findings: "Google fell strikingly short" of its duty to preserve evidence (Dkt. 469 at 16); Google knowingly "gave each employee carte blanche to make his or her own call about what might be relevant in this complex antitrust case," employing a "'don't ask, don't tell' policy for Chat preservation, at the expense of its preservation duties" (id. at 17-18); and Google did so as part of a deliberate, long-running scheme in which "intentionality manifested at every level within Google to hide the ball with respect to Chat," with "individual users . . . conscious of litigation risks and valu[ing] the 'off the record' functionality of Chat" (id. at 17). Moreover, to perpetuate this scheme, Google concealed its conduct from Plaintiffs and the Court—it "falsely assured the Court in a case management statement in October 2020 that it had 'taken appropriate steps to preserve all evidence relevant to the issues reasonably evident in this action,' without saying a word about Chats." (Id. at 16.) Put simply, "Google intended to subvert the discovery process" by intentionally destroying "relevant, substantive business communications." (Id at 18.) This Court has also already found that Google's intentional Chat destruction "certainly" prejudiced Plaintiffs. (Id.)

This Court held that "sanctions are warranted" to address Google's deliberate misconduct, but it asked the parties to brief the appropriate sanctions, explaining that "[t]he remaining question is about the remedy," and "[t]he remedy should fit the wrong." (*Id.* at 1, 18-19.) To determine "an appropriate non-monetary sanction," the Court asked "to see the state of play of the evidence at the end of fact discovery," so that Plaintiffs could "tell the Court what *might* have been lost in the Chat communications," recognizing the inherent difficulty of showing that which no longer exists—or, as the Court referred to it, "plaintiffs' dilemma of trying to prove the contents of what Google has deleted." (*Id.* at 19 (emphasis added).) As the Court noted during the September 7, 2023 hearing:

[Y]ou can't talk about things you don't know about. But you should be able to give me at least some informed sense of things that you expected to have seen or you thought you would have seen or you saw a little bit of, or whatever, and you think the chat issue impacted that in a negative way. (September 7, 2023 Hearing Transcript at 35:20-25.)

¹ Citations to "Dkt." are to *In re Google Play Store Antitrust Litigation*, No. 3:21-md-02981-JD. PLAINTIFFS' PROPOSED REMEDY RE GOOGLE'S DESTRUCTION OF CHAT EVIDENCE Case Nos. 3:21-md-02981-JD; 3:20-cv-05671-JD; 3:20-cv-05761-JD; 3:21-cv-05227-JD; 3:22-cv-02746-JD

While no one can speak to the actual Chats that Google intentionally deleted, the record contains example after example of Google employees beginning to discuss topics highly relevant to this litigation and then quickly agreeing to turn history off to trigger automatic deletion and shield further discussion from discovery, necessarily ending the record available to Plaintiffs. These interrupted Chats are the tip of the iceberg and are powerful evidence of key information—which by any reasonable inference is information that Google thought would be harmful to its legal position if disclosed—being deliberately and permanently destroyed, and thus hidden from Plaintiffs and the Court.

Had all relevant Chats been preserved and produced, Plaintiffs believe they would have had additional evidence, which in all likelihood would include clearer and more candid communications, to prove the anticompetitive purpose of the contracts Google signed with original equipment manufacturers ("OEMs") and developers. For example, Plaintiffs believe that these deleted documents would have shown that Google's revenue share agreements with OEMs were meant to preserve Google Play's app distribution dominance and that Google's Project Hug agreements with would-be app store competitors were intended to pay them not to compete. Further, Plaintiffs believe Google employees discussed the true, anticompetitive motivations behind Google's post-litigation policy changes to Google Play, as well as its top-secret agreements with Apple. But Google employees were trained to speak freely about these topics and others without the risk of disclosure in this litigation by simply keeping history off in Chats, which they did in droves. (*See generally* Dkt. 469.)

The record before this Court easily justifies an adverse inference instruction. Google intentionally engaged in a scheme targeted specifically at concealing from discovery its most sensitive—and most damning—communications, including about the topics at the heart of this litigation. Google's assertion that Plaintiffs obtained most or all relevant communications is unfounded because Google itself does not know what information it destroyed. Moreover, the evidence squarely contradicts Google's assertion, unequivocally showing that Google employees deliberately took their most sensitive discussions, including those subject to litigation holds, from preserved formats to "History Off" Chats, and that Google did in fact delete hundreds of thousands—perhaps millions—of those Chats rather than produce them in litigation. This was standard practice at

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Google. Indeed, Google instructed its employees that history off Chats were protected from disclosure, encouraged copying counsel to apply attorney-client privilege (sometimes referred to as "fake privilege"), and warned employees that careless communications could end up being repeated in a courthouse. For more than 10 years, Google automatically destroyed Chats, even for custodians under a legal hold during active litigation. (Dkt. 429-3 ¶ 9.) The only reasonable conclusion is that Google *succeeded* in its scheme and that the destroyed Chats would have been (at least on average) *more* sensitive and *more* damning to Google's positions in this litigation than the communications Google actually preserved and produced. Google's only failure is that in this litigation, for the first time in more than a decade, it got caught and its scheme was exposed.

Despite all that, and in light of this Court deciding against a "terminating" remedy (Dkt. 469 at 19), Plaintiffs seek a relatively modest remedy: a permissive adverse inference instruction that (i) sets forth at the beginning of trial the facts the Court has already found regarding Google's intentional destruction of Chats, and (ii) directs the jury at the end of trial that it "may" infer that the evidence Google destroyed would have been harmful to Google's case and helpful to Plaintiffs' case. As explained further below, this adverse inference instruction is both an appropriate remedy as a matter of law and proportional to the conduct at issue.

ARGUMENT

"[A] trial court . . . has the broad discretionary power to permit a jury to draw an adverse inference from the destruction or spoliation against the party or witness responsible for that behavior." *Glover v. BIC Corp.*, 6 F.3d 1318, 1329 (9th Cir. 1993) (citation omitted); *see Johnson v. Wells Fargo Home Mortg.*, *Inc.*, 635 F.3d 401, 422 (9th Cir. 2011) (finding no abuse of discretion where an "instruction would 'creat[e] a presumption in favor of [defendant] that the spoliated evidence was unfavorable to [plaintiff]' (citation omitted)" if the factfinder (there, the jury) concluded that evidence was destroyed). This Court has already determined that sanctions are appropriate; the only unresolved aspect is determining that "the remedy fit the wrong." (Dkt. 469 at 18-19.)

Google's deletion of Chats deprived Plaintiffs of the most candid and unsanitized discussions regarding Google's anticompetitive conduct. Such evidence could have eradicated Google's defenses in this litigation, but is unavailable to Plaintiffs and the jury due to Google's intentional discovery

misconduct. Such evidence would not be duplicative of the evidence that *is* available to Plaintiffs, because Google's scheme was geared to destroying the *most* sensitive communications—and based on the evidence, that scheme succeeded. Accordingly, an adverse inference instruction is proportional to the wrong and should be issued.

I. Google Intentionally Deprived Plaintiffs of Evidence that Would Have Strengthened Their Case.

As discussed in detail below, Google's destruction of Chats made it more difficult for Plaintiffs to prove their case. Google has deprived Plaintiffs of evidence regarding multiple critical aspects of its conduct, including its agreements with OEMs (Section I.A, below); its agreements with developers (Section I.B, below); its post-litigation changes to its business model (Section I.C, below); and its concealed business relationship with Apple (Section I.D, below).

A. Google Intentionally Deprived Plaintiffs of Evidence Regarding Anticompetitive Agreements with OEMs.

Plaintiffs previously established that Google employees destroyed countless Chats regarding Google's Mobile Application Distribution Agreements ("MADAs") and Revenue Share Agreements ("RSAs"), as well as other aspects of its OEM partnerships. (*See* Dkt. 468 at 2-3.) These agreements are central to Plaintiffs' cases and Plaintiffs intend to prove that they restrain competition. As noted above, Plaintiffs will be forced to prove this point with an incomplete record. The top executives responsible for these agreements, including Jamie Rosenberg and Jim Kolotouros, deleted all their Chats.² As Mr. Kolotouros recently testified at the Department of Justice's Search antitrust trial against Google, he was cognizant that Google was constantly under regulatory pressure and therefore approached his written communications in a manner designed "to protect Google." (Moskowitz Decl., Ex. 31 at 956:12-958:3.) Accordingly, Mr. Kolotouros—who has "used Chat with Mr. Rosenberg to discuss Samsung revenue share" (*id.* at 971:8-11)—never turned his history on (*id.* at 969:22-970:6). Google has thus deprived Plaintiffs of valuable evidence regarding core issues in dispute in these cases that Plaintiffs could have used to great effect at trial.

² Moskowitz Decl., Ex. 21 at 481:17-23 (Kolotouros testifying to having "had history off . . . for as long as I have been using Google Chat"); Ex. 29 at 103:14-17 (Rosenberg: "I have not done anything to preserve chats for this litigation.").

i. Revenue Share Agreements

In 2019, Google recognized that "Chinese OEMs and Samsung were actively investing in creating their own bundles of apps and services that could be competing with the GMS suite of apps and services." (Moskowitz Decl., Ex. 21 at 244:22-245:3; Ex. 5 at 8107.R.) It needed a solution to "help[] stem the tide of emerging app stores" on Android. (Moskowitz Decl., Ex. 21 at 218:10-14; Ex. 1 at -9615.) The RSA 3.0 program provided that solution. Google decided "to spend in 2020 which would grow to [\$]4.5 billion in 2023" in "the form of revenue share both from Google Search and Google Play." (Moskowitz Decl., Ex. 21 at 250:5-14.) In exchange, Google secured exclusivity agreements from nearly every major Android OEM—agreements that ensured the OEMs would "not . . . preinstall any other app store other than Google Play" (*id.* at 290:21-291:2). Google began entering into RSAs with Google Play exclusivity terms in 2020. Many were signed after this litigation began, and more are being negotiated and renewed through the present.

RSAs were a regular topic of discussion in Chats that have been destroyed. For example, the lead strategy executive for Android boasted, "I talk about RSA related things all day and I don't have history on for all my chats:)." (Dkt. 469 at 12.) When one of her colleagues noted that he was on a litigation hold (as was she) and thus was uncomfortable with having such discussions off the record, the strategy executive decided it was better to "take you off this convo", "which she apparently did. (*Id.*) This was one of many Chats where this strategy executive instructed others to turn history off when discussing Google's RSAs or other relevant topics, including those directly subject to litigation holds. (*See*, *e.g.*, Dkt. 468-6 (RSAs); Dkt. 468-7 (OEM partnerships); Dkt. 468-8 (MADAs).)

Google has contended that its decision to pay OEMs to "install Google Play to the exclusion of their own app stores" is procompetitive because it prevents app store fragmentation, providing users with a better "out of the box" experience and making Android phones more competitive with Apple's iPhone. (Moskowitz Decl., Ex. 21 at 291:23-292:16.) Plaintiffs believe that Google's deleted Chats (including those from the *strategy* executive) would have flatly refuted that theory. For example, behind closed doors (as in their "History Off" conversations) employees may have chatted freely about the motivation for these provisions, revealing that the RSAs were about impeding competition rather than the party line of preventing app store "fragmentation." Or they may have celebrated that an

agreement was executed and another competitive threat was extinguished. It is also likely that Google employees discussed the success of the program in achieving Google's anticompetitive goals, such as whether "the Chinese OEMs like Xiaomi, Oppo, [and] Vivo" in fact chose, as Google hoped, "to forego their alternative app stores that they already had and preinstall only Google Play." (*Id.* at 291:3-10.) Plaintiffs will never be able to show the Chats about these topics to the jury because

Google intentionally destroyed them.

ii. Mobile Application Distribution Agreements

Through the MADA, Google licenses to OEMs a bundle of 11 Google apps and hundreds of thousands of APIs. The bundle includes Google's most popular apps—such as YouTube, Maps and Chrome—as well as Google Play. The APIs are essential for Android smartphones; they "help support functionality of all Android applications." (*Id.* at 447:14-18.) Through the MADA, Google ties Google Play to its popular apps and APIs, because Google requires that "to the extent [OEMs] opt to use even a single Google app or Google service, they must preinstall that entire bundle under the MADA." (*Id.* at 105:9-14.) And Google "require[s] Google Play to be located on the default home screen." (Moskowitz Decl., Ex. 30 at 39:4-8.) The MADA thus helps secure Google Play's dominance, because it ensures that "Google Play is preinstalled on the default home screen of nearly all Android smartphones." (*Id.* at 44:14-18.)

Chats about the MADAs undoubtedly took place and were deleted during the pendency of these lawsuits. In one Chat Google produced, two employees began discussing the MADAs, and one promptly asked: "would it be too much to ask you to turn history off? . . . lots of sensitivity with legal these days:)." (Dkt. 468-8.) Following this request, the Chat abruptly ended, revealing that history was turned off and all further discussions that took place were destroyed forever. This is effectively conclusive proof that highly relevant communications were deleted, precisely *because* of their relevance to litigation. The loss of these sensitive Chats about foundational agreements to Google's anticompetitive behavior undoubtedly prejudiced Plaintiffs, left to piece together Google's misconduct from the sanitized remnants of Google's "Communicate with Care" training. (*See* Dkt. 469 at 3-6.)

iii. Google's Efforts to Pay Samsung Not To Compete

Samsung devices are responsible for of Google Play's approximately

| in annual revenue. (Moskowitz Decl., Ex. 21 at 310:4-18; Ex. 5 at -8123.) After Epic launched |
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| Fortnite on Samsung's Galaxy Store—the first-ever major app to launch on that store and not on |
| Play—Google launched Project Banyan, which had a goal of eliminating the Galaxy Store as an |
| independent distribution channel for Android apps so as "to keep Play as the preeminent distribution |
| platform for Android." (Moskowitz Decl., Ex. 21 at 363:16-20; Ex. 2 at -8211.) To further that goal, |
| senior Google executives met with top Samsung executives, and "Google offered to pay at this meeting |
| \$200,000,000 over four years to Samsung." (Moskowitz Decl., Ex. 21 at 374:20-23.) In exchange for |
| these payments, Google asked Samsung to effectively shut down the Galaxy Store. (<i>Id.</i> at 375:18-22.) |
| "Samsung was receptive to Google's proposal that Google pay Samsung \$200,000,000 in exchange for |
| this agreement not to have its own Samsung Galaxy Store." (Id. at 376:13-19.) Project Banyan ended |
| abruptly in 2019 because Google's legal team realized it was too much of a risk. |

The destroyed Chats undoubtedly would have revealed the anticompetitive intent behind Google's plans, and there is already evidence in the record establishing that Google employees responsible for the relationship with Samsung discussed their strategy with respect to Samsung over Chat. (Moskowitz Decl., Ex. 29 at 93:1-10.) Plaintiffs expect the Chats the jury will never see—because Google destroyed them—would have revealed conversations about the need to stop the Samsung Galaxy Store from competing with Play. They would have discussed how Google could pay off Samsung, like it had done with other competitors, and have Samsung forego pursuing app store competition. Employees would have also discussed the benefits Google would reap from preventing competition and Google's disappointment at not being able to finalize the deal with Samsung. These sensitive discussions would have been conducted in the safety of "history off" Chats and then permanently deleted.

Google reconceived Project Banyan in 2020, when it proposed to "pay Samsung over four years" under a new RSA "[i]n exchange for default home screen exclusivity" for Google Play and other benefits. (Moskowitz Decl., Ex. 25 at 360:4-15; Ex. 8 at -8762.R.) Google believed this deal—which would require "that the Galaxy Store . . . be moved off of the home screen of Samsung's devices" (Moskowitz Decl., Ex. 25 at 359:12-360:2)—would secure \$ for Google "[a]t risk to Play via Samsung app store" (id. at 366:24-367:3; Moskowitz Decl., Ex. 8 at -8768.R).

Google and Samsung signed three RSAs in November 2020, where Google "would pay out between 1 2 " (Moskowitz Decl., Ex. 25 at 388:9-15; Ex. 12 at 3 -2105), but they ultimately did not require home screen exclusivity for Google Play. When asked 4 during his deposition why Google abandoned that term, Christopher Li, the lead Samsung partnership 5 executive, claimed he could not "recall the exact specifics of how I reached that decision" and declined to elaborate. (Moskowitz Decl., Ex. 25 at 377:1-378:6.)³ But Jamie Rosenberg had previously 6 indicated that if Google "couldn't use rev share to secure confidence that [Samsung] won't drive down 7 8 "the fees Google charged to developers then Google "wouldn't do" an RSA agreement with 9 Samsung at all. (Moskowitz Decl., Ex. 4 at -7017.) In the same email, he noted that any understanding reached would need to be "[s]ubject to lots of legal advice on what 'securing 10 11 confidence' can mean." (*Id*.) 12 Google employees unquestionably discussed Google's approach to eliminating competition 13 from Samsung over Chat. Mr. Rosenberg admitted to having such discussions during the January 12, 14 2023 hearing (Moskowitz Decl., Ex. 29 at 93:1-10), and admitted he had "not done anything to preserve chats for this litigation" (id. at 103:14-17). The deleted Chats likely would have explained 15 why Google was prepared to pay hundreds of millions, to move Samsung's app store 16 17 off the home screen; why explicit formal agreements to do so were never executed; and whether 18 Google arrived at any unwritten understandings with Samsung as part of their current 19 RSA deals that gave Google the "confidence" Mr. Rosenberg suggested would be the gating item for any deal.⁵ By deleting its Chats, Google deprived Plaintiffs of important evidence on these 20 21 highly relevant topics. 22

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³ This executive, like so many others, could not recall turning his Chat history on even once during his custodial period. (Dkt. 432-2 at 14, Ex. C.)

⁴ The other executives most involved in Google's dealings with Samsung likewise *never once*

turned on their Chat history, including Mr. Kolotouros, Mr. Li, Mr. Samat and Mr. Lockheimer. (Dkt. 432-2 at 14, Ex. C); Dkt. 469 ¶ 34 (finding that Google employees such as Mr. Rosenberg did not preserve their Chats while engaging in discussions material to this litigation).

⁵ Moskowitz Decl., Ex. 29 at 103:14-17 (Rosenberg: "I have not done anything to preserve chats for this litigation.").

B. Google Intentionally Deprived Plaintiffs of Evidence Regarding Anticompetitive Agreements with Android Developers.

One of Plaintiffs' core claims is that Google had an initiative called "Project Hug" that involved dozens of anticompetitive agreements with customers and would-be competitors. By intentionally ensuring the destruction of Chats, Google disadvantaged Plaintiffs at trial by depriving them of evidence that would have helped prove that these agreements are intended to—and do—restrain competition.

i. Project Hug

In 2019, Google determined that "over \$ of revenue was at risk over the course of 2019 to 2022 if developers moved to alternative Android app distribution platforms other than Google Play." (Moskowitz Decl., Ex. 19 at 169:16-23, Ex. 3 at -2825.) By July 2022, Google entered into agreements with at least 24 top developers that have "mitigated the risk that the developer[s] would have an incentive to distribute outside of Play." (Moskowitz Decl., Ex. 27 at 170:7-11; Ex. 11 at -9919.) Google paid these developers at least dollars to avoid competitive risk. (Moskowitz Decl., Ex. 15 at 6705.R.) Many of these agreements were negotiated and signed after these lawsuits were filed.

Project Hug was discussed over Chat during the period when Google's retention obligations for this litigation were in force. For example, Purnima Kochikar—Google's most senior developer partnerships executive—admitted that she had her "default setting to delete chats every 24 hours" (Moskowitz Decl., Ex. 27 at 22:2-9), and that "Project Hug" and related programs are her "day-to-day work" (*id.* at 104:4-8). Lawrence Koh, another lead executive who worked on Project Hug, admitted that "[e]veryone at Google used it [Google Chat] at least on my team, used it on a daily basis." (Moskowitz Decl., Ex. 19 at 113:14-114:8.) Mr. Koh could not recall ever turning Chat to "history on." (*Id.* at 114:15-23; *see also* Moskowitz Decl., Ex. 20 at 31:4-11.)

Google's destruction of its Project Hug Chats is highly prejudicial to Plaintiffs. Google has stated that it "will show at trial that these agreements are pro-competitive efforts to satisfy its developer customers and compete with Apple." (Dkt. 480 at 2.) Plaintiffs disagree with these contentions but will be forced to respond to them at trial using only the documents that Google decided

to preserve. The candid, unfiltered Chats that Google intentionally destroyed undoubtedly contained 1 2 more frank discussions of Project Hug's true goal—preventing app store competition within Android. 3 Such evidence could defeat Google's defenses, but it is unavailable to Plaintiffs due to Google's 4 discovery misconduct. 5 ii. Google's Agreements Not To Compete with ABK, Riot and Supercell 6 Activision Blizzard, Inc. ("ABK") and Riot Games, Inc. ("Riot") are among the Project Hug 7 developers who "specifically told Google that they were considering their own competing Android app 8 stores." (Dkt. 376-9 at 200:4-20.) When Google sought to enlist ABK in Project Hug, ABK told 9 Google that "[i]f this deal falls through . . . they will launch their own mobile distribution platform 10 (partnering with another 'major mobile company')." (Dkt. 376-4 at -0919; see also Moskowitz Decl., 11 Ex. 15 at -6694.R.) Google agreed to pay ABK \$360 million between 2020 and 2023 to stop that threat. (Dkts. 376-7, 376-8.) Google and ABK were close to renewing their agreement for another 12 13 three years in late 2022, at which time Google was prepared to spend another to stop ABK from launching its own store. (Moskowitz Decl., Ex. 28 at -4347.) 14 15 In a similar deal (albeit on a smaller scale), Google agreed to pay Riot \$28 million in marketing support in 2020 (Dkts. 376-5, 376-6) with " 16 17 " (Moskowitz Decl., Ex. 19 at 299:13-20; Ex. 7 18 at -8691.) . (Moskowitz Decl., Ex. 6 at -0008.) 19 20 (Moskowitz Decl., Ex. 17 at -2563.) 21 Google also entered into an agreement not to compete with Supercell Oy ("Supercell"), another 22 major developer, in (Moskowitz Decl., Ex. 27 at 179:1-7.) 23 24 (*Id.* at 178:6-10.) 25 ." (*Id.* at 179:10-13.) 26 Google claims that none of these agreements is in fact "an actual horizontal agreement not to 27 compete," because (Google brazenly asserts) there is no "direct evidence of a meeting of the minds" 28 between Google and the developers, and no "direct evidence of a promise not to open a competing app

1 store." (Dkt. 355 at 12-13.) Plaintiffs disagree with Google's characterizations, but Google's 2 3 4 5 6 7 8

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27 28 arguments make the prejudice of Google's Chat destruction clear. Google's produced documents represent just the tip of the iceberg in terms of Google's internal discussions about these major deals and their true anticompetitive goals; consistent with Google's scheme and admonitions to its employees, more candid "sensitive" discussions about the nature and goals of deals with these developers would have been moved to off-the-record Chats—which Google destroyed. Whereas the Project Hug contracts and emails support a finding of a conspiracy, the Chats are where the conspiracy would have been less circumspectly described. Plaintiffs have thus been prejudiced by Google's intentional destruction of Chats.

C. Google Intentionally Deprived Plaintiffs of Evidence Regarding Post-Litigation Changes to Google Play's Business Model.

After these lawsuits were filed, Google changed many of its policies and agreements concerning Android app distribution and in-app payments. Google has argued that these business model changes are evidence that it listens to developer concerns and competes vigorously with Apple. The limited documents Google has produced about these changes suggest otherwise: that Google's decisions were driven by litigation and regulatory pressure, rather than competition.

Chats in which employees planned and discussed these changes almost certainly would have shown Google's true motives. In addition, Google's post-litigation evaluations of its business model when legal risks and the likelihood of evidentiary disclosures would have been top of mind—assessed broad changes that Google could have made to its business model if required by regulators. Those discussions over Chat could have demonstrated the existence of less-restrictive alternatives to its challenged practices, and the Chats in which employees discussed them would have provided evidence of their viability. Here, as elsewhere, Google's destruction of Chats deprived Plaintiffs of the best evidence they could have used to confront and impeach Google's witnesses in depositions and at trial. Only an adverse inference instruction can address the prejudice Plaintiffs have suffered.

i. September 2020 Policy Changes

In the wake of this litigation, Google announced a change to its policy of issuing pretextual security warnings to Android users who attempt to download apps from competing stores every time

the user attempted such a download. Google publicly positioned this announcement as an effort "to make it even easier for people to use other app stores" in the forthcoming Android 12. (Moskowitz Decl., Ex. 32.) Google is likely to argue this change was benevolent, made in the spirit of openness and as a response to requests from developers. But in one of the few Chats Google produced on this topic, Android's Head of Security referred to this announcement as "PR crap" and wrote that the change was only made because one of the Play Store's lead executives, "Sameer [Samat,] wanted to *indicate* we[']re being flexible." (Moskowitz Decl., Ex. 10 at -1967 (emphasis added).) It is highly likely that other employees, such as Mr. Samat, spoke candidly on this topic in Chats, and admitted that it was driven by litigation and regulatory concerns and would not in fact make direct downloading easier. The jury will never see those Chats because Google intentionally destroyed them.

It is also highly likely that Google deleted Chats explaining why YouTube—which is one of Google's own businesses—refused for years to use Google Play Billing ("GPB"), and instead used its own payment solution, until Google implemented another policy change in 2022. In a Chat that Google did not destroy, the CEO of YouTube complained to Hiroshi Lockheimer, the Senior Vice President who runs Google Play and Android, that the policy change was "obviously a big change and our team feels it will hurt us competitively," that moving to GPB would require "extra eng from Sundar" (meaning extra resources), and that "Spotify is our competitor who is being exempted so we need to know how we can innovate on billing and not be stuck with a lot of larger prioritizations decisions that might be right for play billing but bad for YouTube." (Dkt. 414-08 at 2-3.) Likewise, Eric Chu, a YouTube employee and one of the few outlier custodians who actually turned history on and for whom a significant number of Chats were preserved, held candid discussions about the effects of YouTube's move to GPB, noting that it "will most likely result in features regression for YouTube and/or huge amount[s] of work for Play." (Moskowitz Decl., Ex. 9 at -0816.)

While these admissions support Plaintiffs' arguments about the policy change, they are only the tip of the iceberg.⁶ The destroyed Chats likely would have offered valuable details about YouTube's reasons for resisting and the challenges it faced when it ultimately switched from its own payment

⁶ Mr. Lockheimer could not recall turning on his Chat history even once. (Dkt. 432-2 at 14, Ex. C.) All of his Chats on this topic have been destroyed, unless, as apparently happened here, the other employee preserved them.

solution to GPB—an event that occurred and would have been discussed after this litigation began.

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ii. **Project Runway**

On March 16, 2021, Google announced that it was reducing its revenue share "to 15% for the first \$1M (USD) of revenue every developer earns each year." (Moskowitz Decl., Ex. 33 at 1-2.) This announcement was the outcome of Project Runway, a program that began shortly after this litigation commenced and through which Google considered much broader changes to the Google Play business model. (Dkt. 468 at 4.)

Project Runway and Google's other business model changes are highly relevant because they recognize the viability of multiple less-restrictive alternatives to Google's challenged restraints and demonstrate that the incremental changes that Google did adopt were driven by regulation and litigation rather than competition, as well as Google's desire to extract more monopoly rents from developers. It is clear that Project Runway was discussed over Chat, and the deleted Chats likely would have shed important light on these topics, as well as Google's reasons for rejecting broad changes to its business model in favor of the modest one that it announced. For example, in a Project Runway "war room" Chat from the time of its March 2021 launch, one employee asked "why we moved to a small dev[eloper] framing"—a key question about Google's motive for the change it made—but others decided "to change from a room to a group chat to get the right settings here (i.e., history off)" without answering that question on the record. (Dkt. 468-10.) This is yet another example of conclusive evidence that shows relevant information that was intentionally deleted. By destroying these Chats, Google has ensured that the record on Project Runway is incomplete.

Google Intentionally Deprived Plaintiffs of Evidence Regarding Google's D. Relationship with Apple.

Google has argued that a wide variety of its restraints—including Project Hug, Project Banyan, and the challenged MADA and RSA 3.0 terms—are "procompetitive" because they are driven by competition with Apple. Plaintiffs will show that in fact, instead of competing, Google and Apple 'hugely cooperate'—to quote one Google executive—including because of their "revenue share deal." (Moskowitz Decl., Ex. 21 at 74:14-75:11.) According to Mr. Pichai, Google pays Apple " 'under this agreement, and "

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(Moskowitz Decl., Ex. 30 at 28:5-13.) In exchange, the agreement ensures that, "Google revenue from search coming from Apple was somewhere between in 2021." (Moskowitz Decl., Ex. 26 at 345:20-346:2.) For over a year, Google refused to produce to Plaintiffs core documents about this major commercial arrangement, claiming the agreement between the two companies was one of Google's and Apple's "most sensitive business documents." (Moskowitz Decl., Ex. 16 at 1.) Ultimately, Google reluctantly produced few documents discussing this agreement, and virtually no Chats—even though Mr. Pichai, who clearly approved the deal and meets with Apple's CEO to discuss it has testified that he does use Google Chat "for business purposes." (Moskowitz Decl., Ex. 30 at 185:23-25.) Mr. Pichai, like many other Google employees, never turned on his Chat history and instructed others to turn it off when discussing sensitive topics (which Google admits the agreement with Apple undoubtedly is). In one Chat, Mr. Pichai began discussing a substantive topic, and then immediately wrote: "also can we change the setting of this group to history off." (Moskowitz Decl., Ex. 18 at -3593.) Nine seconds later, Mr. Pichai apparently attempted (unsuccessfully) to delete this incriminating message. (Id.) Chats from Google's highest-ranking executive, including about the Apple agreement, would have been probative in this litigation, and their absence substantially prejudices Plaintiffs.

II. A Permissive Adverse Inference Instruction Would Be Proportional.

A permissive adverse inference instruction is an appropriate—even modest—remedy where, as here, a party intentionally and prejudicially destroyed an entire category of relevant evidence. *Radio City, Inc. v. Celestron Acquisition, LLC*, 2023 WL 5519324, at *4 (N.D. Cal. Aug. 25, 2023); *Apple Inc. v. Samsung Elecs. Co.*, 881 F. Supp 2d 1132, 1149-51 (N.D. Cal. 2012); *Io Group, Inc. v. GLBT, Ltd.*, 2011 WL 4974337, *8, (N.D. Cal. Oct. 19, 2011). Courts in this district have recognized that the "[s]anctions levied for the destruction of evidence 'should be designed to: (1) deter parties from engaging in spoliation; (2) place the risk of an erroneous judgment on the party who wrongfully created the risk; and (3) restore the prejudiced party to the same position he would have been absent the wrongful destruction of evidence by the opposing party." *Radio City*, 2023 WL 5519324, at *4 (quoting *Apple*, 881 F. Supp. 2d at 1136). The intentional nature of Google's conduct, combined with the pervasive nature of the destruction, make an adverse inference instruction appropriate. (*See, e.g.*,

Dkt. 468-6 ("[C]an I ask you to turn off history:)"); Dkt. 468-7 (similar).)

A decision from this district involving less egregious facts is illustrative. In *Apple Inc. v.*Samsung Electronics Co., the court found that Samsung committed a discovery violation where it "consciously disregarded" its obligation to preserve certain emails by failing to suspend an autodeletion mechanism for certain custodians' emails. 881 F. Supp 2d 1132, 1149 (N.D. Cal. 2012). The court explained that it was "mindful, however, that any sanction must be the least drastic available to adequately mitigate the prejudice Apple suffered." *Id.* at 1150. The court determined that a permissive adverse inference satisfied that standard. It found that Apple suffered prejudice because "literally thousands of documents" were likely destroyed for certain custodians, and those custodians "are senior Samsung employees whose internal communications would have been especially probative to the claims at issue in this litigation." *Id.* at 1150.

Here, Google went much further than Samsung. While Samsung likely destroyed "thousands of documents," judging by the widespread preference among Google employees for off-the-record Chats, Google destroyed hundreds of thousands, if not millions. Moreover, unlike Samsung, Google intentionally directed and trained employees to use a certain medium for their most sensitive communications and then destroyed the entire category of relevant documents from that medium—all off-the-record Chats for all employees, including all custodians. And while the Apple plaintiff could have obtained some of the deleted emails from other sources (for example, other custodians who were copied on those emails), Plaintiffs do not have that safeguard here because there are no other sources. This means that, unlike in Apple, a significant component of the prejudice Plaintiffs suffered is that the Chats Google destroyed were likely to be among the most candid and sensitive conversations held by high-ranking Google employees, and they are unrecoverable and unavailable from any other source.

III. Google's Arguments Against an Adverse Inference Instruction Fail.

Google has suggested that instead of ordering an adverse inference instruction, the Court should "let [Plaintiffs] put on some evidence, not a lot, but some evidence to the jury." (8/3/2023 Tr. at 68:12-15.) Google has also proposed that "if Plaintiffs establish that they have been prejudiced by a gap in the record . . . Google should be permitted to introduce evidence of its preservation practices and the circumstances of this case to explain why it did not act with the intent to destroy

1 unhelpful documents and that the jury should not infer that any such documents would have been 2 helpful to Plaintiffs." (Dkt. 429 at 15.) Google's proposals ignore that these issues have already been 3 litigated and decided. The Court found that Plaintiffs "certainly" proved prejudice, and that Google's 4 objection "that the prejudice is limited . . . is not well taken." (Dkt. 469 at 18.) And the Court found 5 that "the intentionality manifested at every level within Google to hide the ball with respect to Chat." 6 (Id. at 17.) Requiring Plaintiffs to present evidence regarding Google's Chat destruction, in order to 7 prove facts that they have already proven, would be no sanction at all and would force Plaintiffs to use their valuable trial time to retread the same ground that an instruction by the Court could cover. To the 8 9 contrary, it would reward Google by forcing Plaintiffs to devote precious trial time to matters other 10 than Google's core anticompetitive conduct. 11 12 13 14

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Further, discovery since Plaintiffs' last submission on this topic has revealed that Google's intentional destruction of relevant Chats is not an isolated instance of discovery misconduct, but rather is one facet of a pervasive corporate culture in which Google deliberately encourages its employees to shield evidence from discovery and instructs them how to do so. Every additional production by Google—including the production of Chats that the Court ordered Google to make as part of the Chats

proceedings—exposed additional layers of intentional discovery misconduct.

For example, in a January 26, 2021 Chat, a Google in-house attorney described "an email thread where they [Google employees] looped me in for **fake privilege**." (Moskowitz Decl., Ex. 14 at -0332.) In a March 17, 2022 Chat, the same Google attorney stated that the creation of a new Google team will make her work easier, because that team will handle "the fake privilege!" (Moskowitz Decl., Ex. 23 at -0631.) In a May 19, 2022 Chat, a Google employee who was deposed in this case noted that Match had filed suit against Google, which prompted an employee to ask "[w]hat about prior documentation [of Match deals]? I.e. do we need to revise?" (Moskowitz Decl., Ex. 24 at -8223-24.) The employee was advised to "avoid anything written where possible" and told to make "no notes/emails/decks and make sure Legal is copied on everything." (Id.) And in a January 8, 2021 Chat, a Google employee referenced a working document containing 'sensitive" information, "like, what do we want to do with MSFT [Microsoft]." (Moskowitz Decl., Ex. 13 at -7173.) Another employee decided to "go delete some senstivie [sic] stuff" and "remind[]

people" to "communicate with care," as per Google's training. (*Id.* at -7173-74.) 1 These documents show that Google's culture of destroying and concealing evidence to protect 2 3 Google pervaded the entire company and extended well beyond destroyed Chat evidence. As a result, Plaintiffs have been deprived of even more evidence than the Chat hearings exposed. 4 5 A permissive adverse inference instruction would go no further than is needed to address the 6 7 serious harm caused by Google's conduct. At the start of trial, the Court should instruct the jury of the 8 facts surrounding Google's Chat destruction, and at the end of trial it should instruct the jury that it 9 may, if it chooses, infer that the evidence Google destroyed would have been harmful to Google's case and helpful to Plaintiffs' cases. 10 11 Plaintiffs therefore respectfully request that the Court order the adverse inference instruction attached as Exhibit A. 12 13 14 Dated: September 21, 2023 CRAVATH, SWAINE & MOORE LLP 15 Christine Varney (pro hac vice) Gary A. Bornstein (pro hac vice) 16 Timothy G. Cameron (pro hac vice) Yonatan Even (pro hac vice) 17 Lauren A. Moskowitz (pro hac vice) Justin C. Clarke (pro hac vice) 18 Michael J. Zaken (pro hac vice) 19 M. Brent Byars (pro hac vice) FAEGRE DRINKER BIDDLE & REATH LLP 20 Paul J. Riehle (SBN 115199) 21 Respectfully submitted, 22 By: /s/ Lauren A. Moskowitz. Lauren A. Moskowitz 23 24 Counsel for Plaintiff Epic Games, Inc. 25 26 27 28

| 1 | Dated: September 21, 2023 | BARTLIT BECK LLP Karma M. Giulianelli |
|----|---------------------------|---|
| 2 | | KAPLAN FOX & KILSHEIMER LLP |
| 3 | | Hae Sung Nam |
| 4 | | Respectfully submitted, |
| 5 | | By: <u>/s/ Karma M. Giulianelli</u> Karma M. Giulianelli |
| 6 | | Karma M. Giulianelli |
| 7 | | Co-Lead Counsel for the Class in In re Google Play Consumer Antitrust Litigation |
| 8 | | |
| 9 | Dated: September 21, 2023 | PRITZKER LEVINE LLP Elizabeth C. Pritzker |
| 10 | | Respectfully submitted, |
| 11 | | • |
| 12 | | By: <u>/s/ Elizabeth C. Pritzker</u> Elizabeth C. Pritzker |
| 13 | | Liaison Counsel for the Class in In re Google Play Consumer Antitrust Litigation |
| 14 | | 20 |
| 15 | D-4-1. C-4-1. 21 2022 | |
| 16 | Dated: September 21, 2023 | OFFICE OF THE UTAH ATTORNEY GENERAL Brendan P. Glackin Lauren M. Weinstein |
| 17 | | Respectfully submitted, |
| 18 | | By: /s/ Lauren M. Weinstein |
| 19 | | Brendan P. Glackin |
| 20 | | Counsel for the Plaintiff States |
| 21 | | |
| 22 | Dated: September 21, 2023 | HUESTON HENNIGAN LLP |
| 23 | | Douglas J. Dixon Christine Woodin |
| 24 | | Joseph A. Reiter |
| 25 | | Respectfully submitted, |
| 26 | | By: <u>/s/ Douglas J. Dixon</u> Douglas J. Dixon |
| | | - |
| 27 | | Counsel for Plaintiffs Match Group, LLC et al. |
| 28 | | |

EXHIBIT A

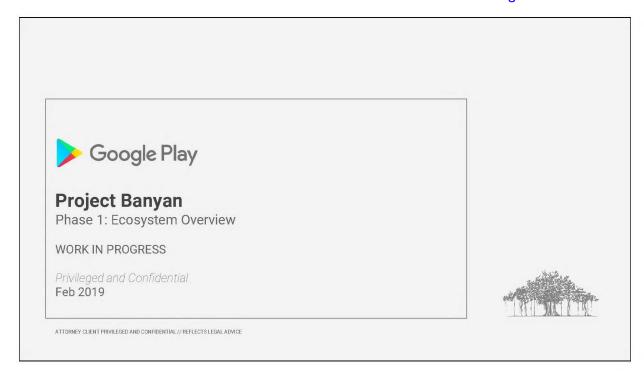
Before this trial began, the Court ruled that Google intentionally destroyed relevant evidence. In reaching that conclusion, the Court found the following facts.

- 1. Google employees use Google Chat every day to discuss a variety of topics, including substantive business issues, including matters relevant to this antitrust litigation.
- 2. In the ordinary course, Google automatically deletes all private (1-on-1) and group Chats 24 hours after they are sent unless the Google employee manually turns on Chat history. Such messages are referred to within Google as "off the record" or "History Off" Chats.
- 3. Google instructed employees in trainings entitled "Communicate with Care" about strategies for seeking to make their written communications "protected by the attorney-client privilege," even when this status was not accurate.
- 4. Google employees were trained that because Google is in the public eye and courthouse, chatting "off the record" is sometimes better than email. The Court found evidence that Google employees regularly divert sensitive topics to Chat, and that Google employees are aware that their Chats are generally not preserved.
- 5. Beginning no later than the filing of this lawsuit on August 13, 2020, Google had a legal obligation to preserve evidence, including Chats.
- 6. Google chose not to comply with that obligation. Even though Google could have preserved Chats using technology readily available to it, Google chose not to.
- 7. Google also did not check to see if custodians—Google employees whose documents were turned over to Plaintiffs in this case—were actually preserving relevant Chats as directed by the litigation hold notice.
- 8. As a result of Google's misconduct, Chat messages relevant to this case were systematically destroyed every 24 hours and cannot be recovered or restored. You therefore will not see all the evidence that is relevant to this case.
- 9. You may infer that Chat messages destroyed by Google would have been unfavorable to Google in this case.

E-FILING ATTESTATION I, Lauren A. Moskowitz, am the ECF User whose ID and password are being used to file this document. In compliance with Civil Local Rule 5-1(i)(3), I hereby attest that each of the signatories identified above has concurred in this filing. /s/ Lauren A. Moskowitz
Lauren A. Moskowitz

Exhibit A2 Public Redacted Version

EXHIBIT 2

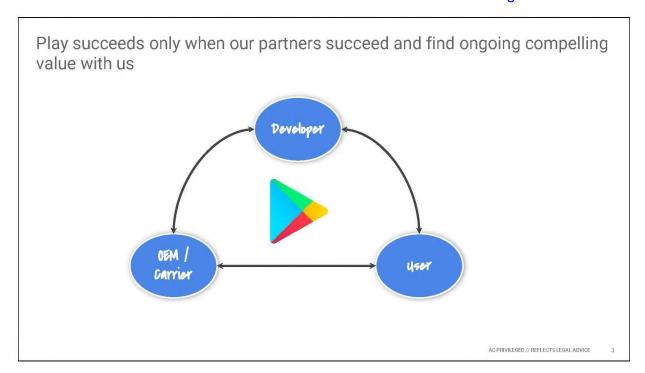


Agenda

- 1. Project scope and milestones (including exec meeting cadence)
- 2. Overview of recent ecosystem events
- 3. Proposed list of scenarios
- 4. Initial scenario analysis (in-progress)

AC PRIVILEGED // REFLECTS LEGAL ADVICE

Wendy



| Existe | ential Question |
|--------|--|
| | How do we continue to keep Play as the preeminent distribution platform for Android? |
| | |
| | AC PRIVILEGED // REFLECTS LEGAL ADVICE 4 |

Three major milestones to agree on (1) scenarios to deep-dive, (2) overall response strategy, and (3) specific initiatives by mid Q2 What are the biggest risks to Play's What should be our priorities to What initiatives should we prioritize value proposition to partners? address these risks? for 2019? Identify the needs of developers, Evaluate the **outcome** and **impact** Identify existing & new initiatives to OEMs, carriers, and users that Play (economic & strategic) of the most implement the strategy doesn't meet, and assets that likely scenarios Evaluate and prioritize initiatives potential players1 bring to app Identify the major levers to address based on feasibility and impact distribution the risks in the scenarios Identify the most likely scenarios for Prioritize these levers and develop a alternative app distribution, including high-level strategy financial feasibility of each Milestone 1: Agree on most likely Milestone 2: Agree on the highest-Milestone 3: Agree on a response scenarios for deep-dives impact levers and a high-level plan (initiatives to kick off or expand) response strategy In progress, targeting late Feb/early ETA: ~end of April ETA: ~end of March 1 Out of scope: MSFT launcher since this trend is not a Play specific issue, Subscriptions (e.g. Netflix) given their workarounds for Play billing are being addressed separately by Play team AC PRIVILEGED // REFLECTS LEGAL ADVICE

Major deliverables by milestone Milestone 1: Agree on most likely scenarios for deep-dives **Milestone 2:** Agree on the highestimpact levers and a high-level **Milestone 3:** Agree on a response plan (initiatives to kick off or expand) ETA: ~end of March In progress, target late Feb/early Mar ETA: ~end of April Ecosystem players analysis (OEM, Impact analysis of most likely Current or potential new initiatives to Carrier, developers, users, others e.g. scenarios, including strategic and implement the recommended Amazon) - Needs, assets, economics

(where relevant) Scenario enumeration and modeling - how each scenario plays out, and

Preliminary analysis for discussion today

Recommendation of most likely scenarios for further deep-dives

why it would happen

economic implications for Play

Enumerate available levers for counteracting or mitigating impact of scenarios & criteria to evaluate them

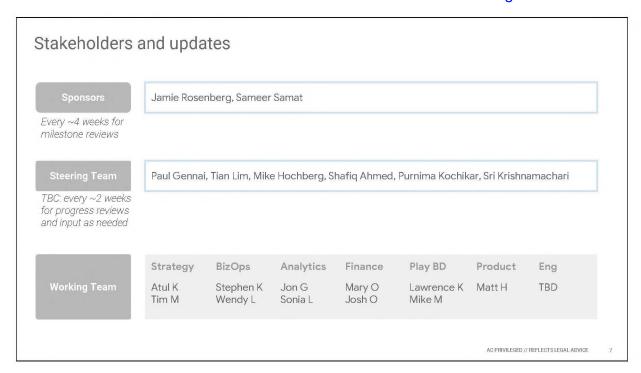
Recommended strategy based on prioritized levers to address the highest-impact risks

Impact and feasibility analysis of available initiatives, including highlevel timelines and resourcing needs

Recommended initiatives for 2019H2 and beyond

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Yooki

Questions:

Timing for Jamie / Sameer meeting (will need help from Paul)

Try to have as needed meeting with Steering team

| | vond | |
|-----------------------|---|---|
| | Project Hug | Project Banyan |
| Context | Today's mobile game devs have new and different needs from the mobile devs of five years ago Some mobile devs are questioning the value of Google Play as a distribution partner; considering alternatives | Google Play is facing increased competition from app store rivals and other distribution channels (OEMs, carriers), causing fragmentation & mindshare loss Meanwhile, some partners are applying price pressure and experimenting with direct distribution models |
| Key Questions | What are the new needs of today's mobile game devs? How can Google Play help with those needs beyond traditional value-add (reach, security)? In what ways we expand our xGoogle value proposition to mobile devs who are increasingly asking for it? | What are some future scenarios that would challenge Google Play's continued growth as the leading Androic app store? What are the driving forces? What is the impact? How could Play prepare for these possible futures by changing its product or business model? |
| Outputs, Outcomes? | Priority game developer segments and needs x-PA commercial programs to enhance Google's gaming value proposition Timeline: execute in 1H 2019 (pilots underway) | Scenario definition with underlying motives, levers and tactics Prioritized Play product and commercial changes for different constituencies to address fragmentation Timeline: Start execution in H2 2019 - H1 2020 |

Tim



Tim

Major working hypotheses & assumptions guiding our scenarios (1/2) FOR DISCUSSION Ecosystem players Samsung is the only OEM with sufficient share to plausibly build its own store in key Play markets (71% share1 of premium Android (\$600+) in top 10 Play countries) **OEMs** Chinese OEMs lack sufficient share today in Play markets to be an immediate concern outside China, but are a long-term consideration Carriers stores would have limited appeal to global developers — but carriers may play a **Carriers** role in pre-install of other (OEM, developer, or 3P) stores Major games with strong existing user bases are the likely driver of any new distribution platform (top 10 devs ~25% of Play app & game revenue) Biggest concern are AAA / Hi-Fidelity games or geographic-focused games where Play's **Developers** value proposition is weakest (~62% top AAA games² spend on Samsung devices, NCSoft / Mixi have 98% spend in KR / JP) Other popular app categories lack a strong incentive to pursue alternative distribution AC PRIVILEGED // REFLECTS LEGAL ADVICE 1) Based on IDC last 24 months unit sales (2017-2018) 2) Based on set of 15 representative hi fidelity, hi spend games

Atul

AAA, Hi Fidelity games are most likely, because Play's broad Android reach is less helpful to these games (e.g. focus on high-end devices for XX% revenue)

Casual games are less likely drivers as Play's broad reach is more important (only XX% revenue on high end devices)

Major working hypotheses & assumptions guiding our scenarios (2/2) FOR DISCUSSION

Ecosystem players



- Users would switch to a new distribution channel only with a strong draw exclusive, high-profile titles, and/or sustained pricing advantage
- Users would stay on on alternative channel with better pricing (discounts, loyalty programs), a sufficiently strong catalog over time, and transferability to new devices

Other 3P platforms

Amazon and MSFT are best positioned 3Ps to disrupt games distribution with existing assets (Prime, Twitch, XBox), 1P titles (for MSFT e.g. Minecraft, Halo) and willingness to invest

Macro trends



- 5G: Significant improvement in bandwidth and latency opens up new distribution channels
- Cloud Streaming: could disrupt game distribution by bringing console/PC games to mobile and enabling more cross-platform experiences

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Atul

AAA, Hi Fidelity games are most likely, because Play's broad Android reach is less helpful to these games (e.g. focus on high-end devices for XX% revenue)

Casual games are less likely drivers as Play's broad reach is more important (only XX% revenue on high end devices)

Carriers

US

Single Country: Verizon
Multi-country: T-Mo (deutch telecom), Sprint (Softbank), AT&T (owns some Latin American Telcos)

Japan (3 carriers own 85% of market)

NTT (some small overseas stakes, but mostly Japan)

KDDI (Mostly Japan)

Softbank (Lots of holdings in many tech companies, but Sprint is only telco)

Korea

SK Telcom (has subsidiaries in China and Vietnam)

LG (no overseas telcom)

KT (has some small subsidiaries in mongolia and a few eastern european countries)

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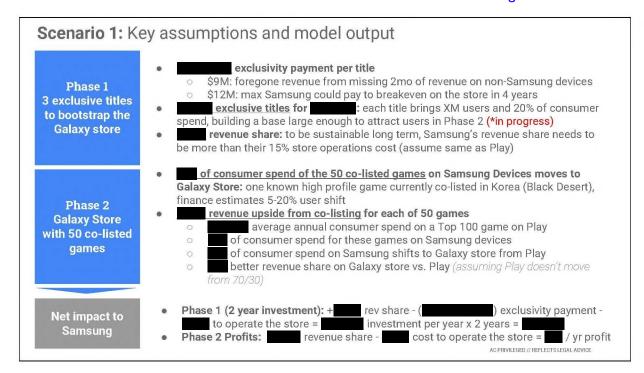
| | Scenarios | Key assumptions // Likely players |
|-------------------|--|--|
| EM | Samsung app store goes big with exclusive AAA games, building a gaming distribution platform | OEMs invest in exclusivity to gain user base for store & future rev share |
| Developers | Major gaming platforms builds a store with titles from multiple developers | Epic Games, Steam, Tencent build mobile stores |
| | AAA gaming developer goes direct through side- or pre-loading | Riot, Tencent, Activision, EA go direct |
| P latforms | Amazon or Microsoft launches a complete gaming platform with distribution | AMZN/MSFT drive uptake w/ exclusives & streaming Longer-term, AMZN builds out a complete app catalog |
| Carriers | 5 OneStore goes big in Korea — inspiring carriers in JP and US to duplicate | Likely driven by major US or JP carriers — biggest Play markets |
| | Carriers drive streaming distribution — move high end gaming off Play to the Cloud | Carriers package game streaming with 5G network rollout (e.g., <u>PlayGiga model</u>, VZN <u>cloud gaming</u>) |
| ther / ultiple | Multiple alternatives stores emerge, and significantly erode the Android user experience | Multiple stores create fragmentation and user / developer confusion |

Atul

| Scenario 1: Samsung goes big w/exclusives to build successful Galaxy Store PRELIMINARY – for discussion. Underlined assumptions discussed on next page | | | | | |
|--|--|--|--|--|--|
| Challenging to see Galaxy Store becoming attractive enough to developers to be a successful, sustainable stand-alone business | | | | | |
| To bootstrap adoption, need to spend to buy exclusive rights to per year | | | | | |
| Would need to offer revenue share (better than Play, but room to make margin) | | | | | |
| Need to believe that exclusives would build a user base loyal to the Galaxy Store (sufficient to drive of Samsung device consumer spend for co-listed apps to Galaxy store) | | | | | |
| Need to believe user base and rev-share attract 50 of top 100 games to co-list on the Galaxy store - challenging; is in annual benefit sufficient to entice developers to co-list? | | | | | |
| Net-net: successful store would yield margins of net investment¹ for first 2 years | | | | | |
| Samsung could use game exclusives to drive hardware sales, but this would not hinge on building a sustainable game distribution business | | | | | |
| 1) Net investment net revenue share less exclusivity payments | | | | | |

Stephen

50 of 100 games selected given is sufficiently big enough to be of note to Play, while still be plausible



Stephen



Ecosystem Review: Device OEMs

Unmet needs / motivation to pursue a Play alternative

- Differentiated software experience (e.g. exclusive apps) to help turnaround slowing hardware sales
- New revenue streams via apps & services to offset slowing hardware sales

Assets OEMs bring to a Play alternative

- Distribution power via base of installed devices, ability to set pre-loads and push updates
- Technical capabilities to optimize apps & hardware, esp. for high-end games
- 3. Brand power & marketing investment, e.g. Samsung comarketing with Fortnite, esports sponsorships
- 4. Existing app stores for local OEMs in China, Samsung
- 5. (Limited) User FoP e.g., Samsung Pay

Scenario implications

Strong incentive for OEMs to act for both differentiation and service revenue

Strong opportunity for major OEMs to acthave the pieces needed for either <u>direct distribution</u> of select apps (e.g. Fortnite) or a broader <u>app store offering</u> (e.g. Samsung store)

Focus on Samsung, Huawei, Xiaomi (TBC)

- high market share, esp. premium segment (most relevant to hi-fi games) and premium markets (KR, JP, US)

Ecosystem Review: Developers

Unmet needs / motivation to pursue a Play alternative

- Developers would prefer a better revenue share and do not always feel that Play (or Apple) justify their 30% share esp. those with large existing fan bases (e.g. AAA games) or limited global ambitions
- Developers have product & technical needs to support the development lifecycle [details here]

Assets Developers bring to a Play alternative

- Developers own IP (apps, games, rights to franchises) that users spend money and time consuming
- Small number of developers with the "best IP" the most desireable content with the most devoted fans, who will overcome significant barriers to get that IP

Scenario implications

Developers who see the **least benefit** from Play's global distribution and discovery have **biggest incentive** to seek cheaper alternatives in particular, AAA games (focus of Project Hug)

Games developers also have **significant technical needs** that are not well-met by Play/Google offerings (e.g. LiveOps support)

Only select developers with **committed audiences** likely to forgo Play distribution entirely.

[TBD] Developers have limited incentive to tackle complexity of **co-listing** in alternative stores unless they have significant reach

Ecosystem Review: Other 3P Platforms

Motivation to pursue mobile app/game distribution

- Amazon: known interest in gaming (twitch, lumberyard), desire to expand Prime ecosystem, existing app store
- Microsoft: Existing gaming strength (Xbox, PC), desire to expand desktop services portfolio to mobile (e.g., Bing)

Assets Developers bring to a Play alternative

- 1. Bring exclusive 1P IP (MSFT Office, Minecraft, Halo)
- Enable unique integrations with 1P platforms (Prime, Twitch, Xbox)
- Influence OEMs with access to new device sales channels (Amazon.com, MSFT Enterprise Sales)
- Integration or discounts on development platforms (AWS, Lumberyard, Azure)
- 1. Deep pockets and willingness to invest

Scenario implications

Other 3P platforms have **compelling assets and deep pockets** to try to disrupt app/game distribution on Android...

...but **both have tried** — **and failed** — to do so in the past, but recent changes create opportunity:

- Openness of potential OEMs or Developers to partner
- Relative strength of platforms (e.g. complete gaming stack)
- Technology shifts (e.g., streaming, 5G, cloud)

Ecosystem Review: Carriers

Unmet needs / motivation to pursue a Play alternative

- Increase subscriptions or subscription prices with exclusive / differentiated apps
- 1. New revenue streams via apps & services

Assets Carriers bring to a Play alternative

- 1. Connection to the user
 - a. FoP/DCB: Carriers have a billing relationship w/users
 - Influence of user's device purchase decision at POS in store & online (e.g., merchandising, commissions)
- Influence over the OEM: Pre-loading of carrier apps & app stores negotiated in commercial agreements w/OEMs
- Influence over the Developers: Network control & paid prioritization could potentially impact developers ability to serve their apps to users

Scenario implications

Carriers in markets with significant Play revenue and strong carrier presence in device retail in best position to pursue app distribution

• Carriers in Korea, Japan, and US best positioned (e.g. Onestore)

Carriers would still need to **strike deals** with **OEMs** to pre-install stores - but some could offer developers **broader** reach than a single OEM



| Assumption | Phase 1: 3 Exclusives | Phase 2: 50 co-listed games | Comment | | | |
|--|--------------------------|--------------------------------|---|--|--|--|
| Months of exclusivity for exclusive Samsung games | | | Moderate length exclusive to line up with critical first few months of a hardware launch | | | |
| Number of exclusive games per year | | | Phase 1: Data request out to Play Analytics to validate Phase 2: No exclusives anymore — Galaxy store is self-sustaining | | | |
| Share of consumer spend on top games on Samsung devices | | / | Average of today based on representative apps. This is correlated with general market share of devices and would take time to shift | | | |
| Share of consumer spend on Top 100 games on Samsung devices | | | ased on top 100 apps today. This is correlated with general market share of devices and would take time to shift | | | |
| Galaxy store revenue share with devs | | | Assume it needs to be better than Play | | | |
| Galaxy store revenue share for Samsung | | 1 | Needs to be higher than 15% cost to operate the store | | | |
| Galaxy Store share of Samsung device spend when exclusive | | | Game is exclusive — Galaxy store should get all of the spend | | | |
| Galaxy Store share of Samsung device spend when co-listed | | | Based on high end of experience today of 5-20% for game Black Desert which is co-listed on Galaxy store for Phase | | | |
| Number of top 100 titles co-listed on Galaxy store | | | Phase 1: Focus mostly on exclusives – little other developer co- listing Phase 2: Significant co-listing among top 100 apps | | | |
| Cost to operate the store as percent of store revenue | | | Based on number of Play finance | | | |

Yooki / Stephen

Scenario 1: Modest phone sales increases could fund Galaxy store investments, but unclear if exclusives or a store can affect units sales

Context: Samsung Premium phone (>\$700) sales 2018 were 57M units (ex-China)

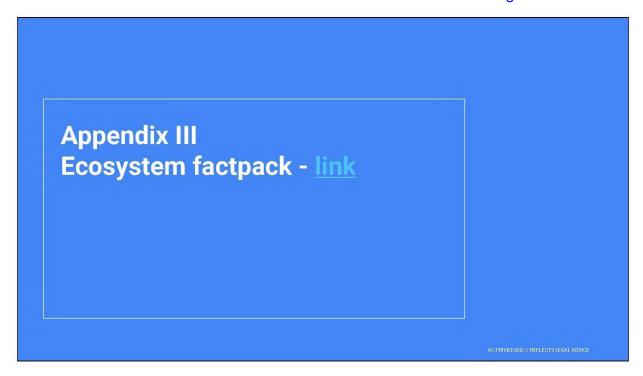
| Incremental Annual Unit sales | Incremental Units | Incremental Gross Profit for Samsung ¹ |
|----------------------------------|----------------------|--|
| 0.5% | 295K | \$75M |
| 1.0% | 590K | \$150M |
| 1.5% | 885K | \$225M |

If Galaxy store exclusives and/or store loyalty can help drive small incremental phone sales vs. Samsung baseline — could easily be worth \$100M+ per year

1) Assume ASP of \$853 (average of GS9, GS9+, Note 9) and Gross Margin of 30% Reference: $\underline{\sf OEM\ market\ share\ analysis}$

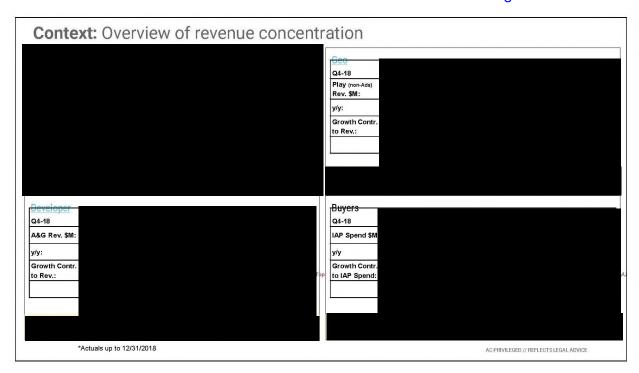
However, unclear at this time if:

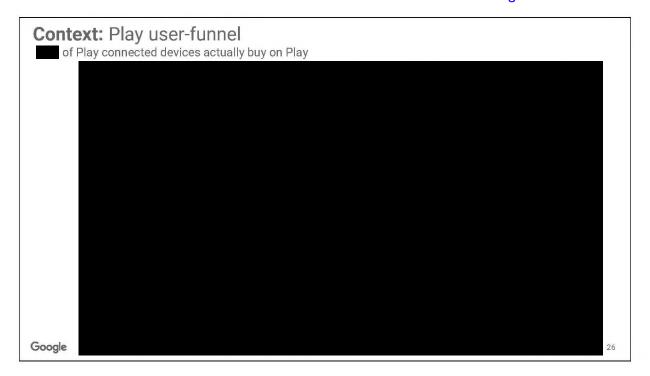
- <u>Exclusive titles</u> would be able to drive such an increment
- The additional effort in building a <u>successful</u> <u>store</u> would make a difference





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FOP: Forms of Payment A&G: Apps and Games Store browsers: people who open the play store Acquirers: people that download apps from the play store



Exhibit A3 Public Redacted Version

EXHIBIT 3

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Boosting Top Game Developer Support & & Securing Play Distribution on Samsung Devices

April 9, 2019

ATTORNEY CLIENT PRIVILEGED AND CONFIDENTIAL // REFLECTS LEGAL ADVICE

CONTENTS

Executive Summary

Context & Mobile Gaming Trends

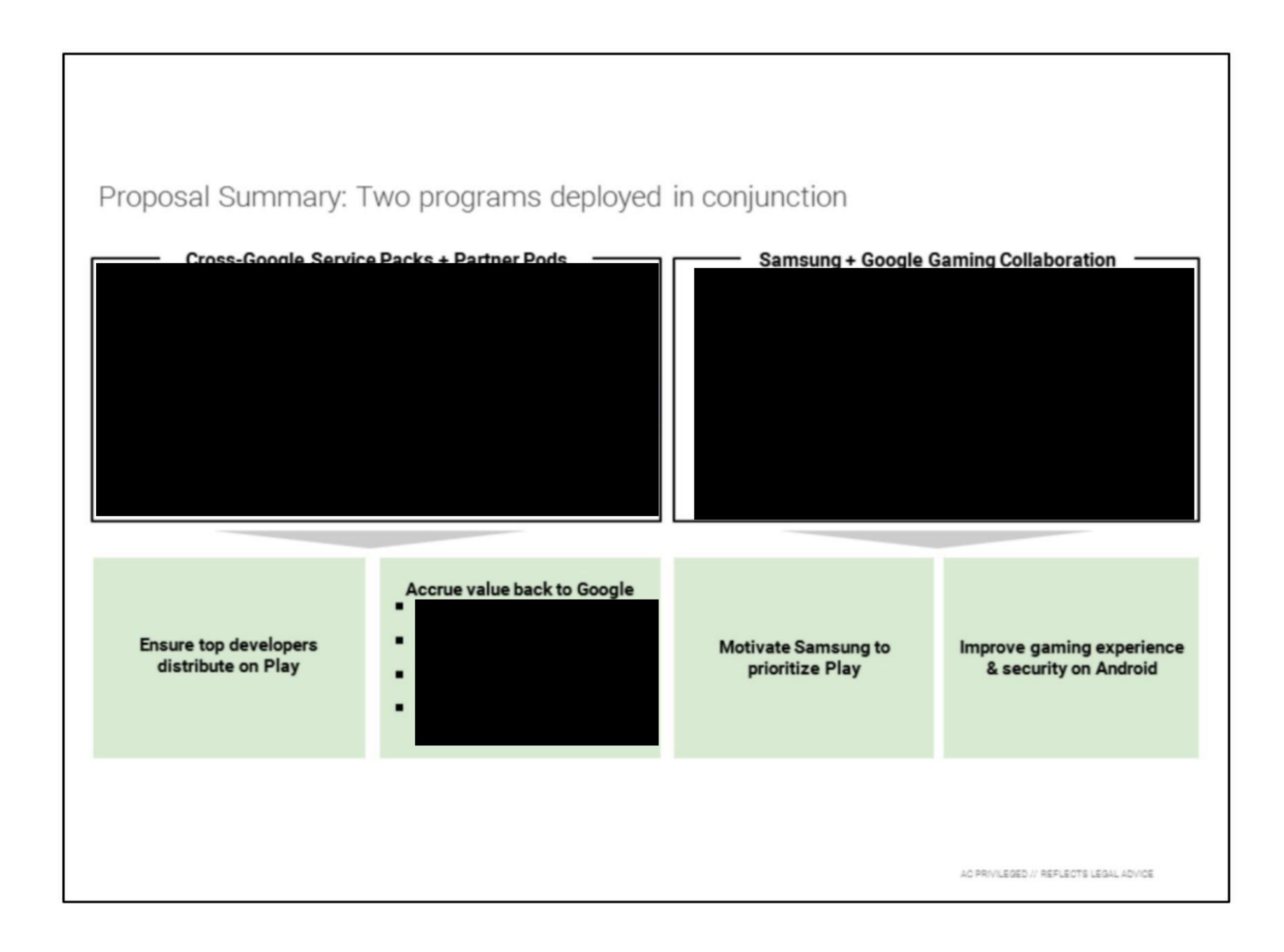
Risks

Program Proposals

- Top Game Developers
- 2. Samsung

Financial Summary

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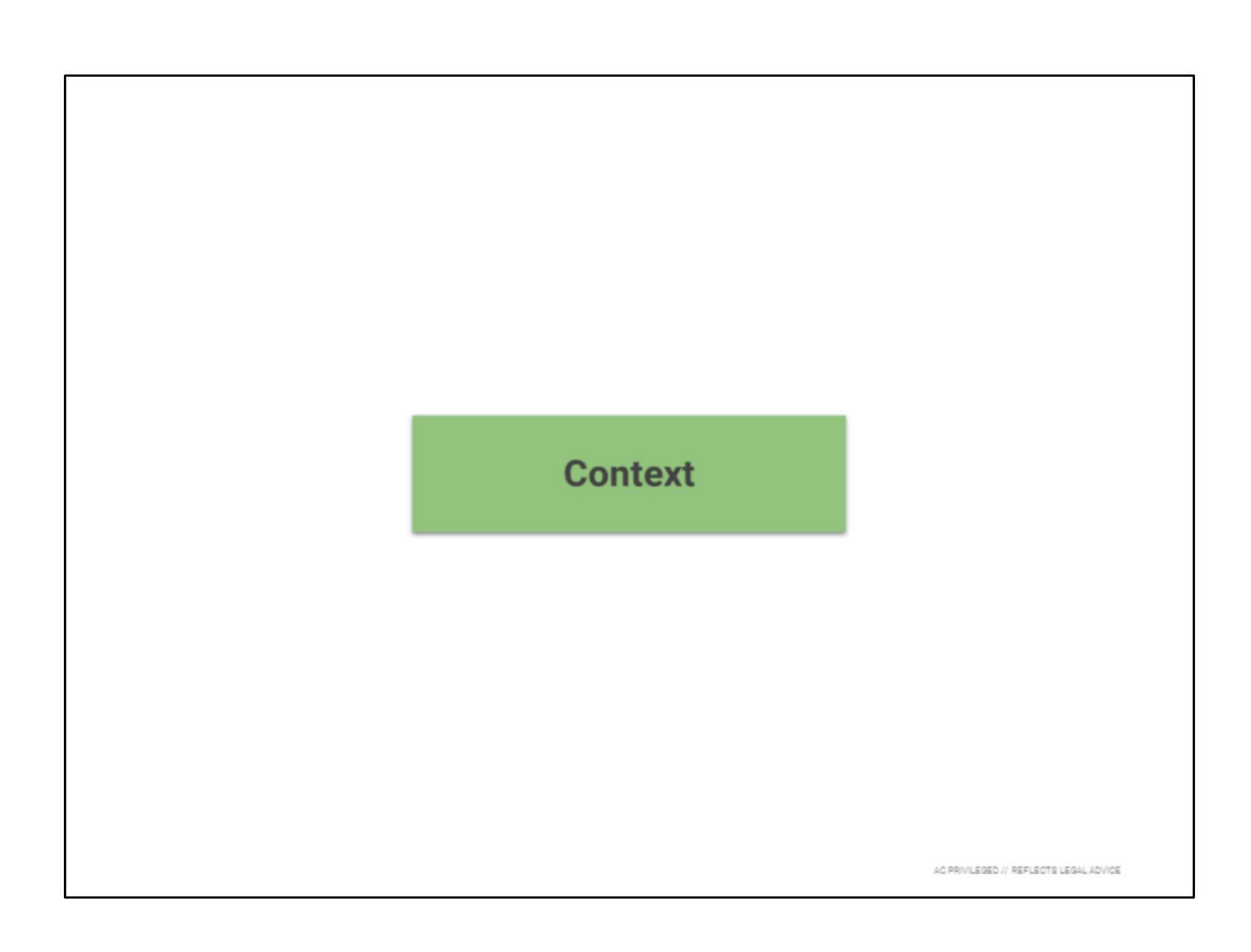


Both programs are needed

Need to invest in top devs now to ensure imminent launches happen on Play and reduce noise Samsung is aggressively pursuing gaming, and indicated they're open to partnering with us (but a deal will take time to negotiate and implement)

Note: We're also beginning to explore ways to reduce 'app store tax' sentiment across the developer ecosystem, via new business model concepts

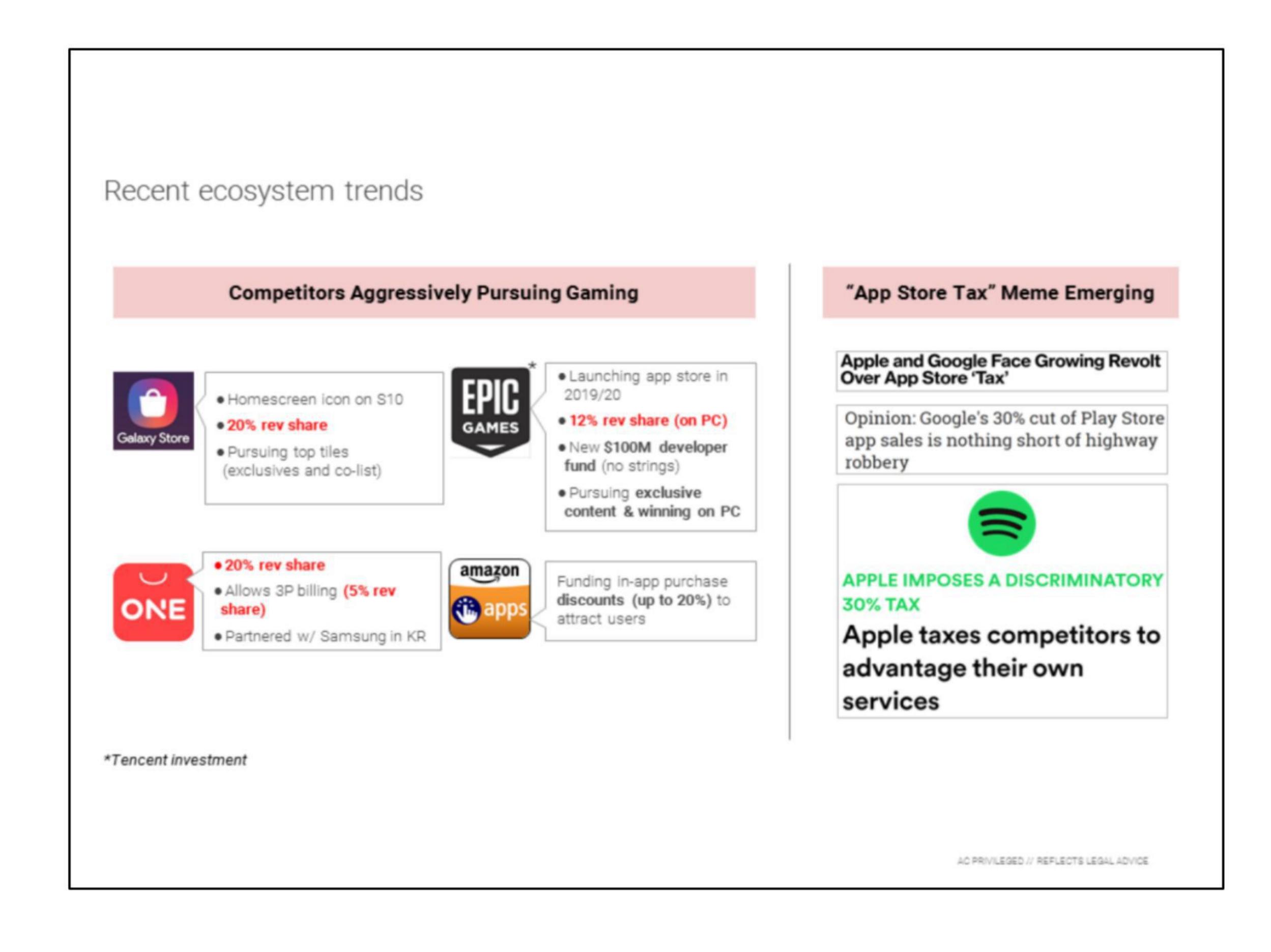
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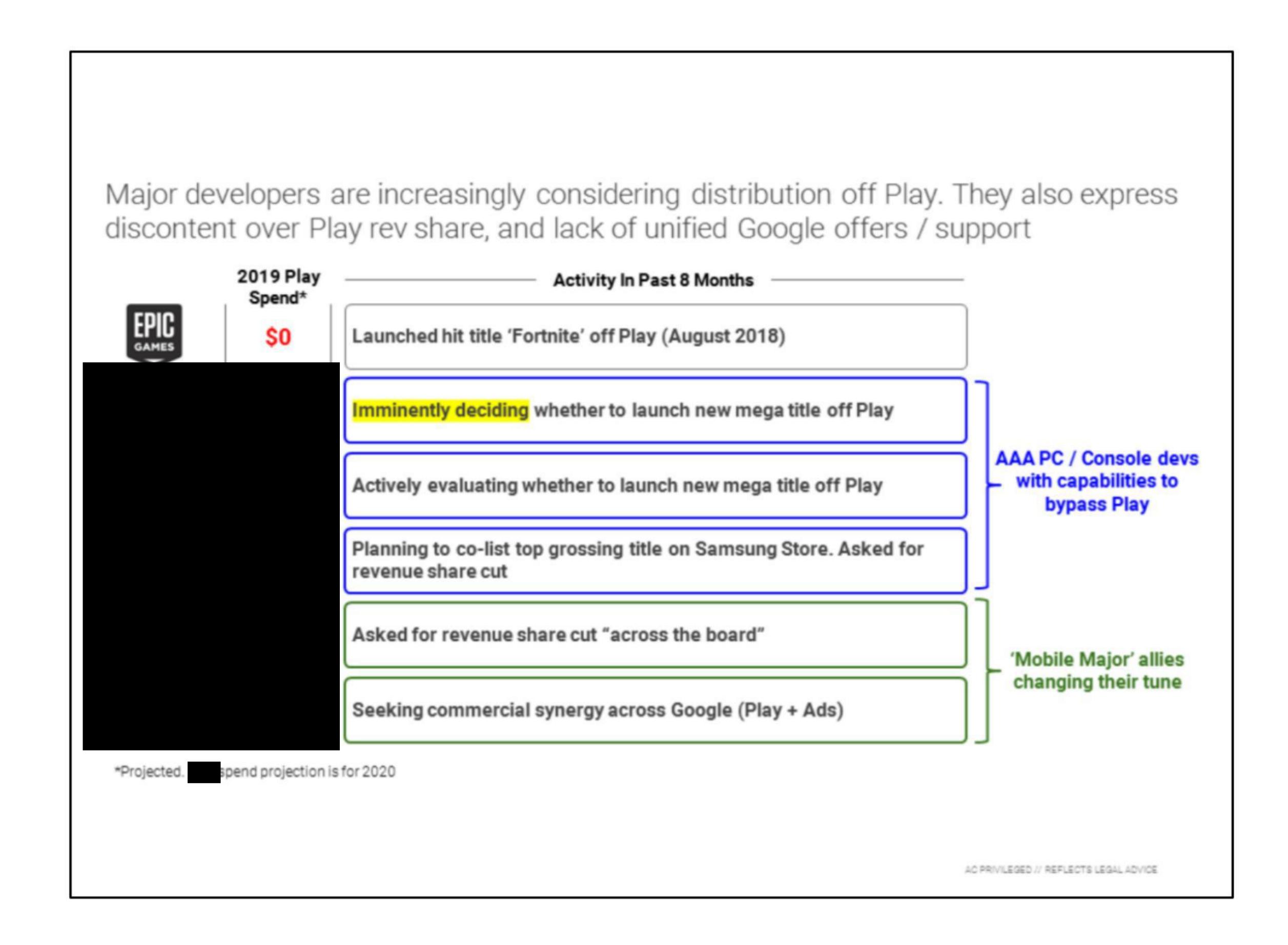
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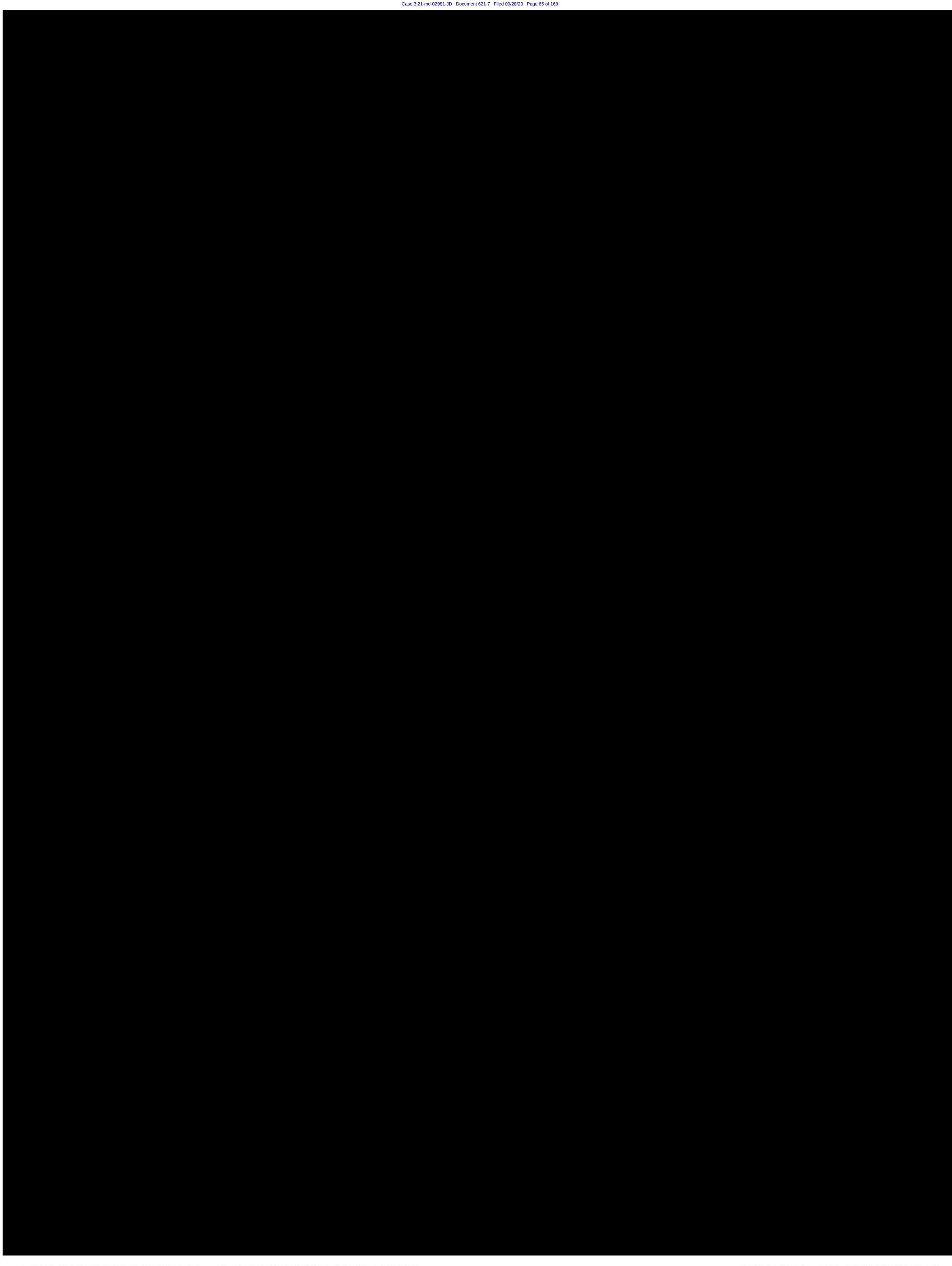


- HVUs: sof buyers spend
- Samsung concentration of reflect 2018 actuals. Concentration is even higher in few key Play markets, eg, KR

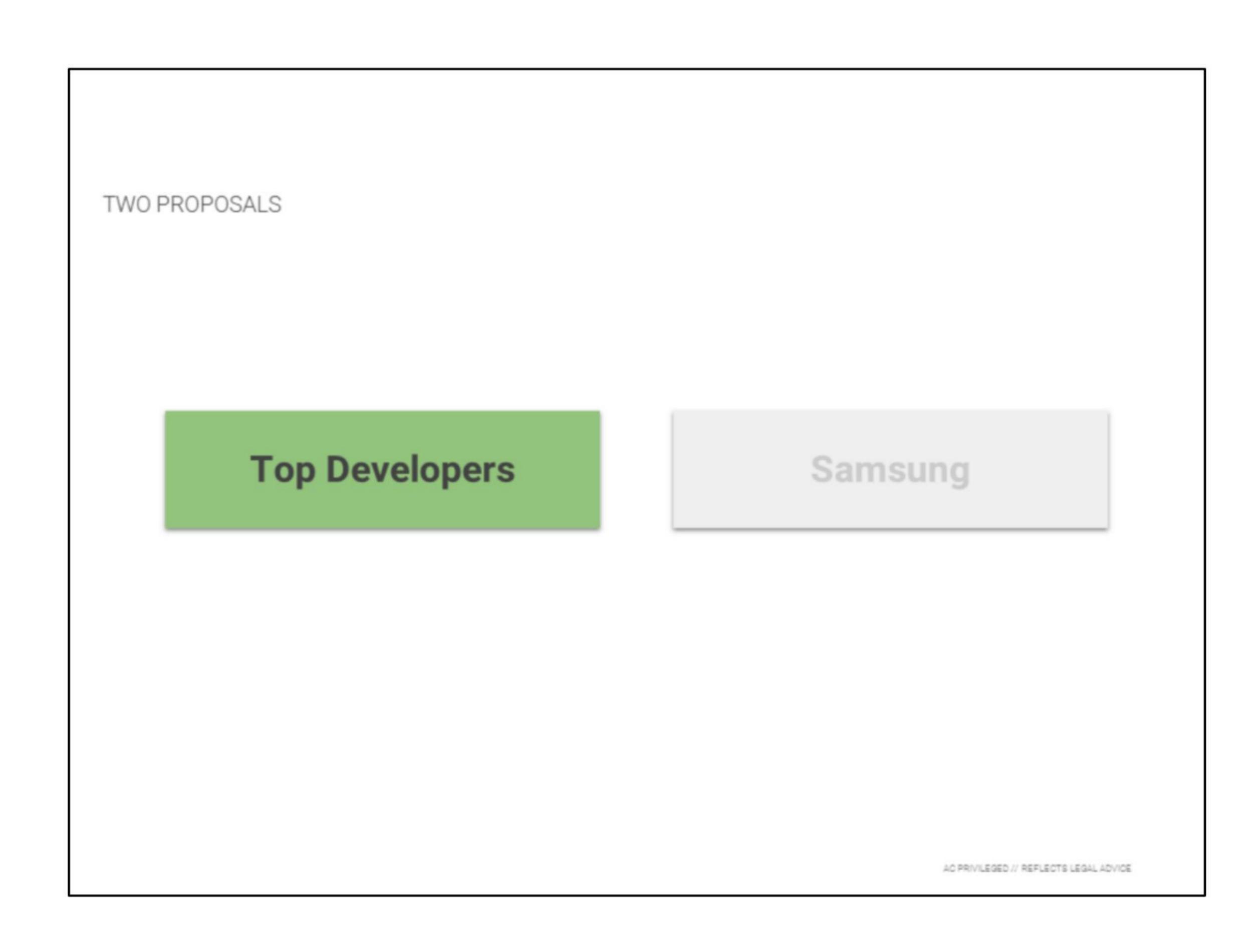


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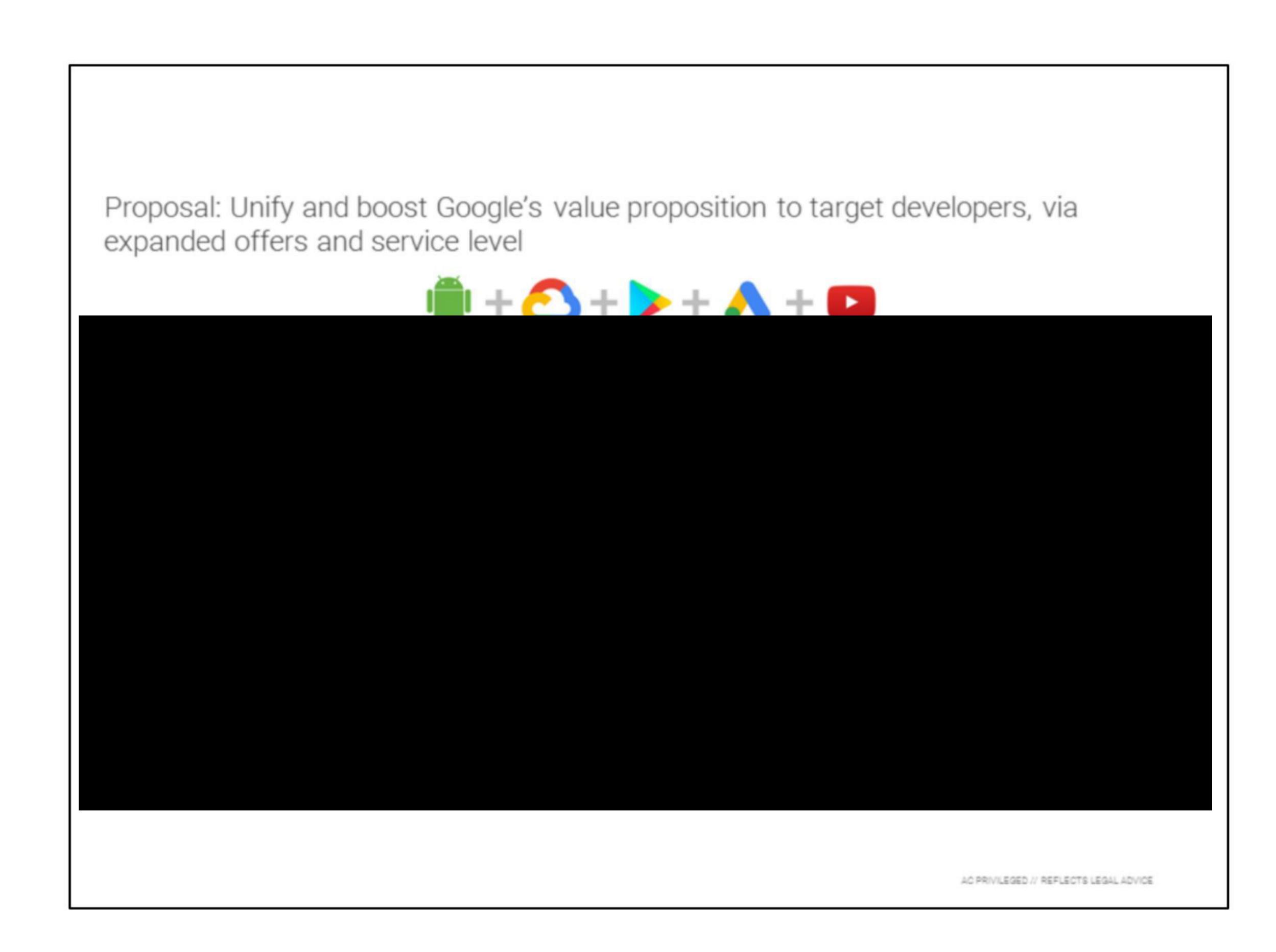




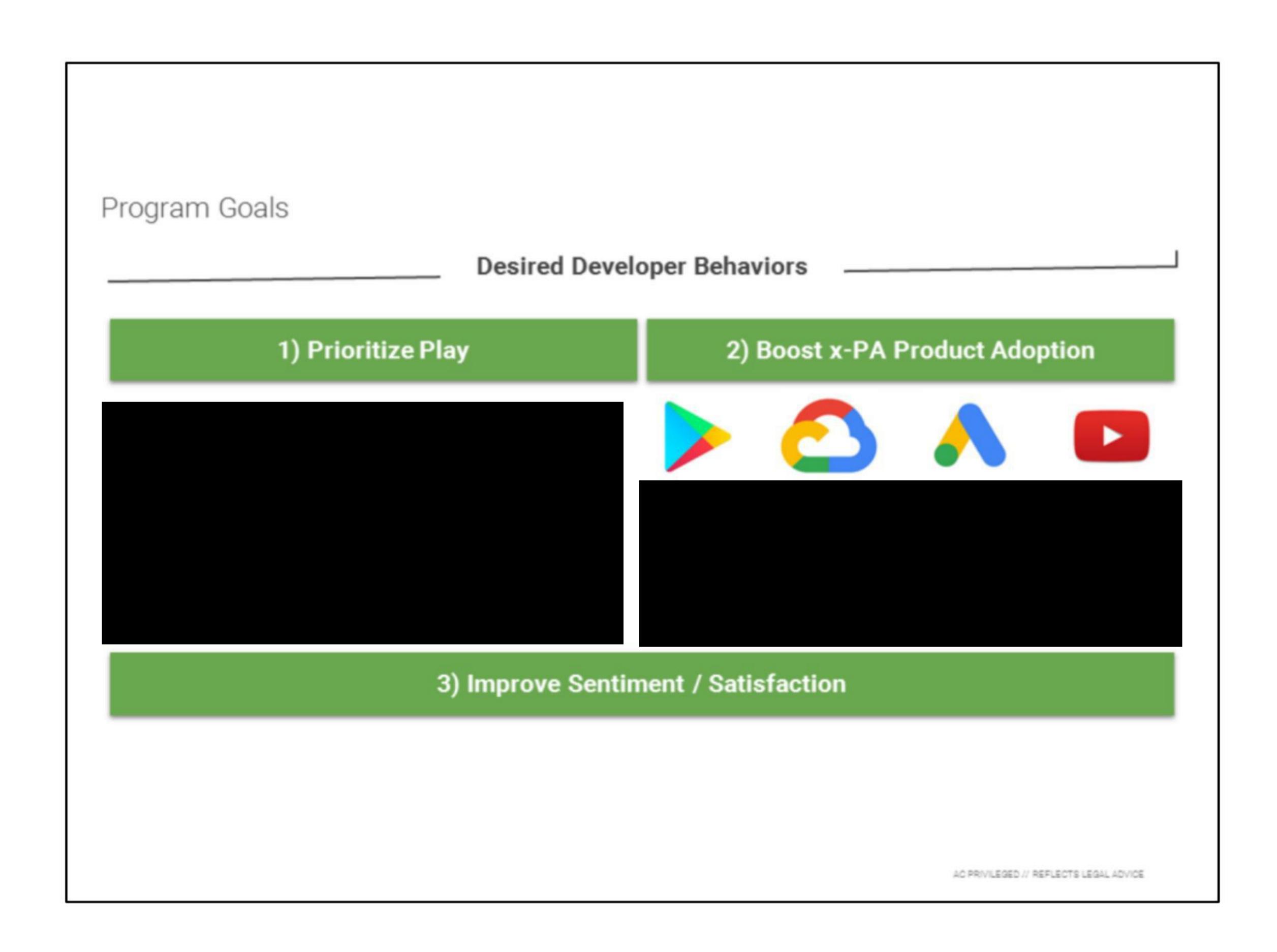
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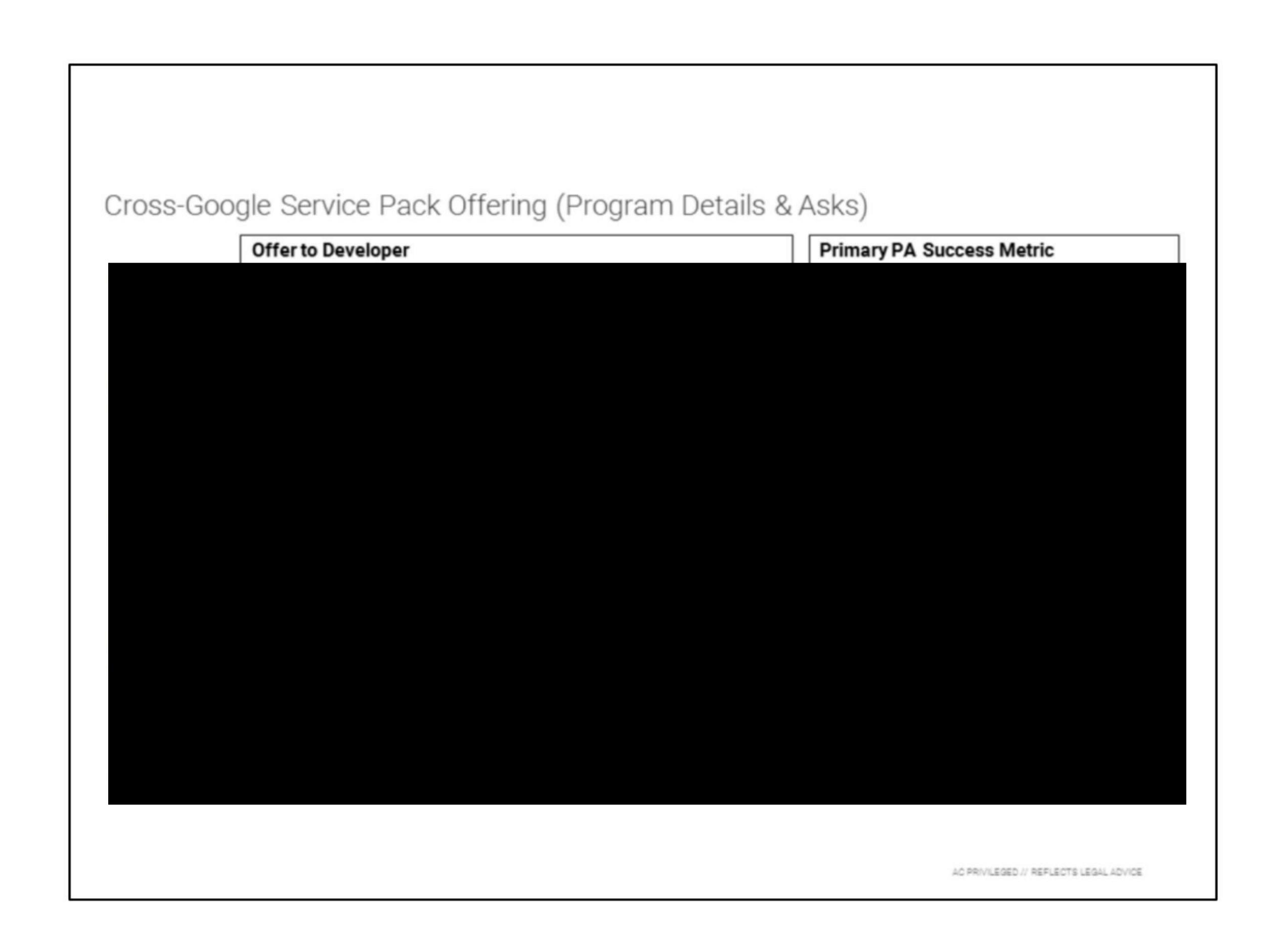


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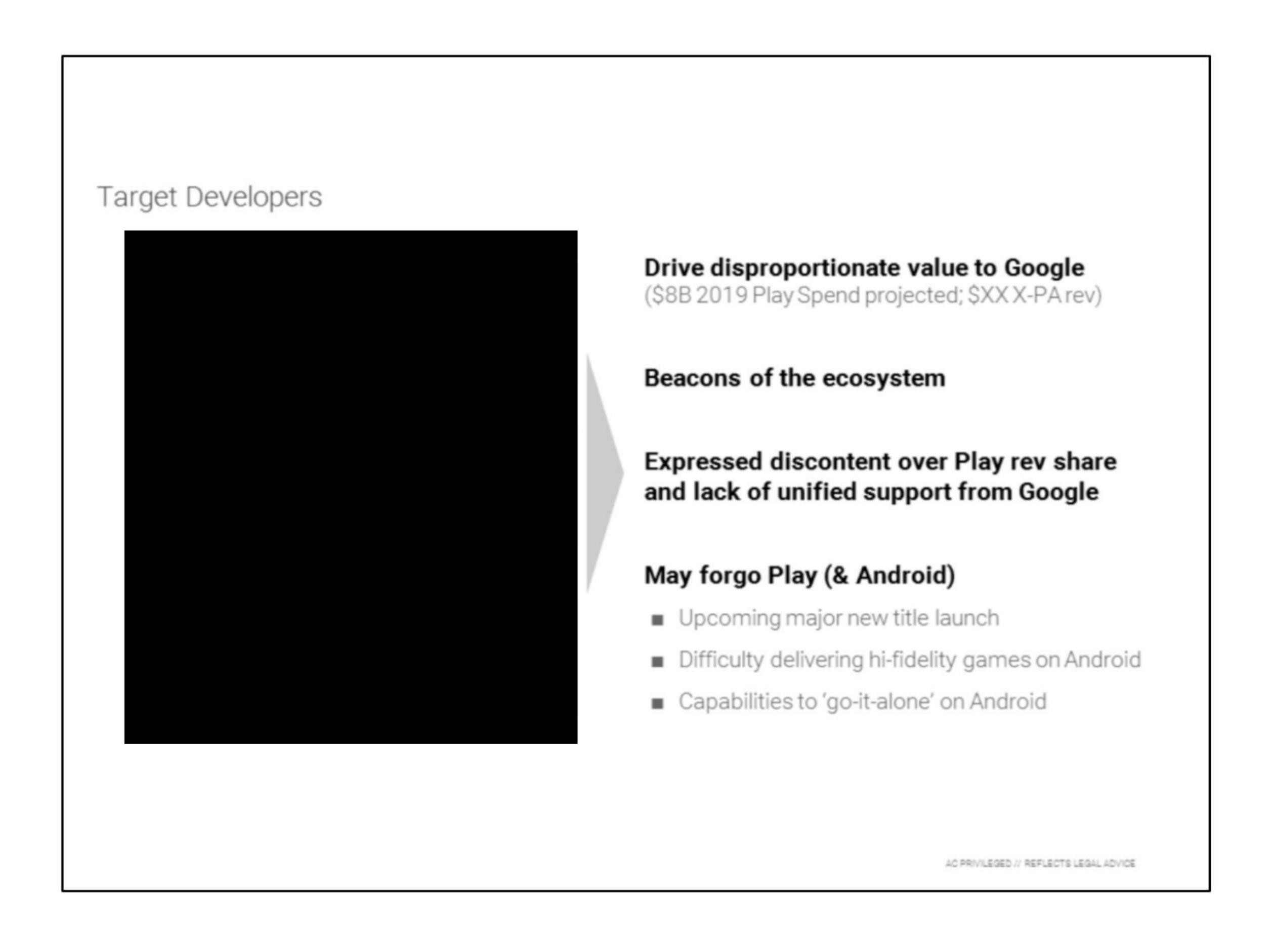


Improve sentiment about (1) Play revenue share, (2) building high-fi games for Android, and (3) Google's gaming value proposition Android: reduced app distro fragmentation

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Dev List

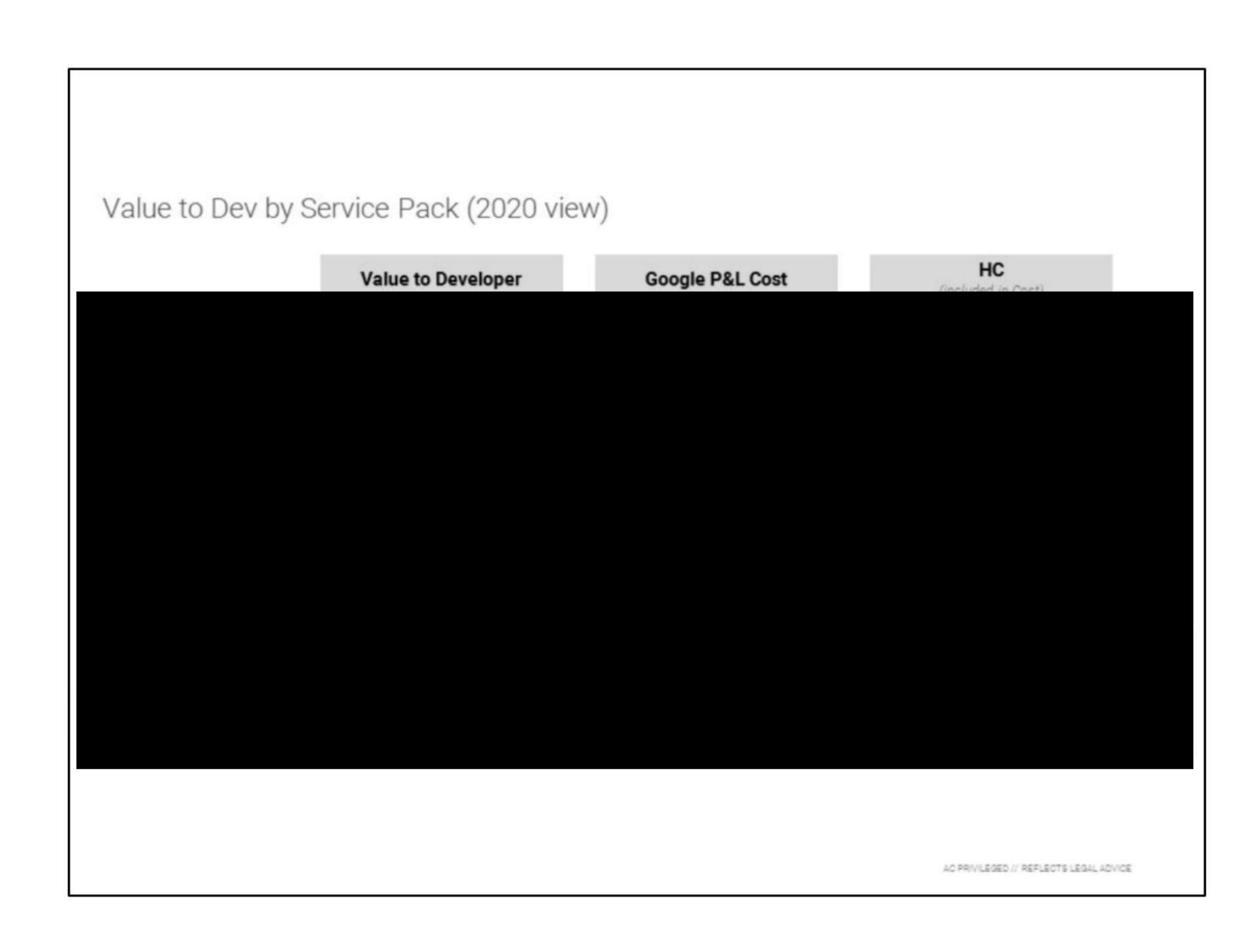
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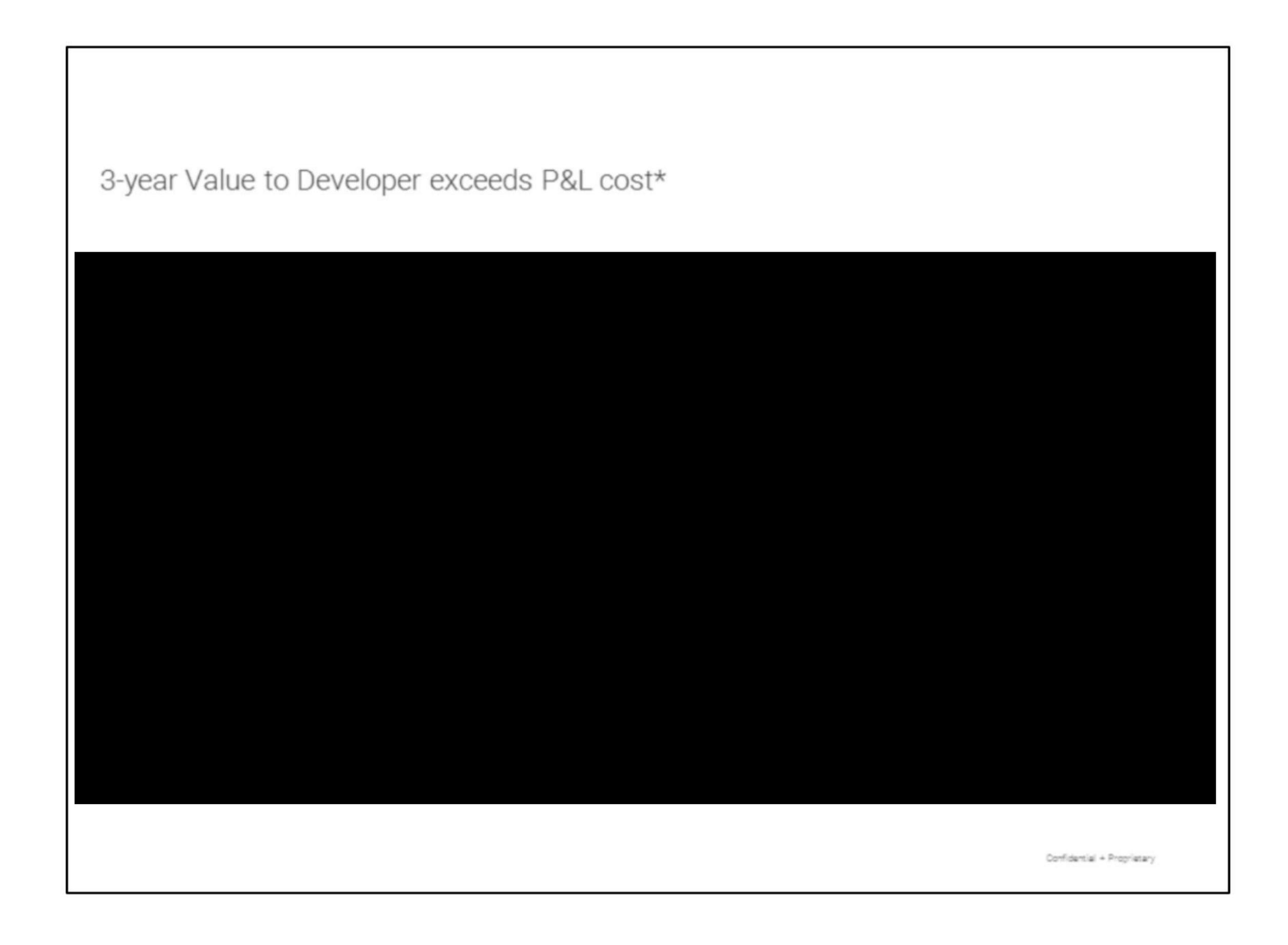
More developers

-Piloting Build & Test & Launch packs with _____ good early traction

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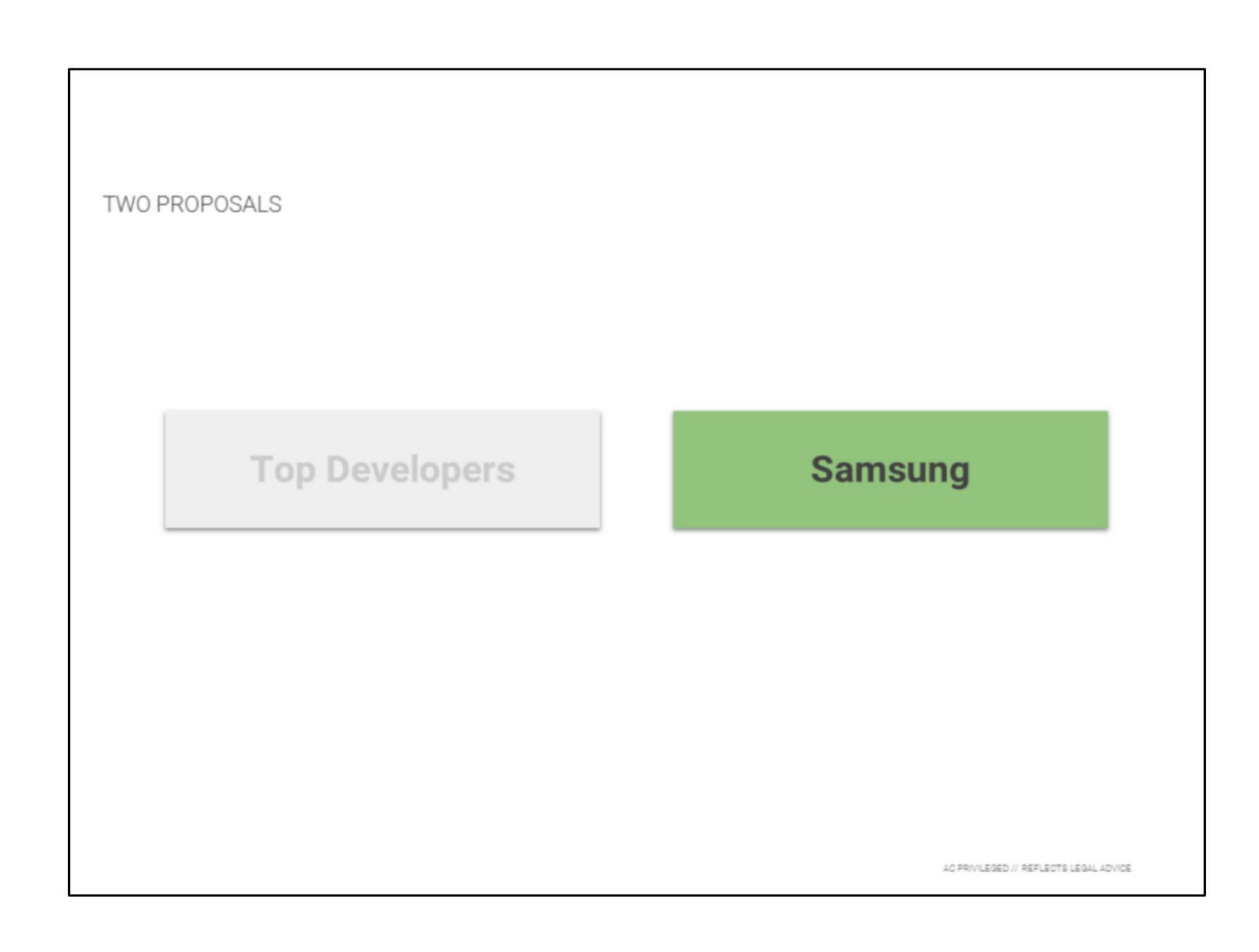


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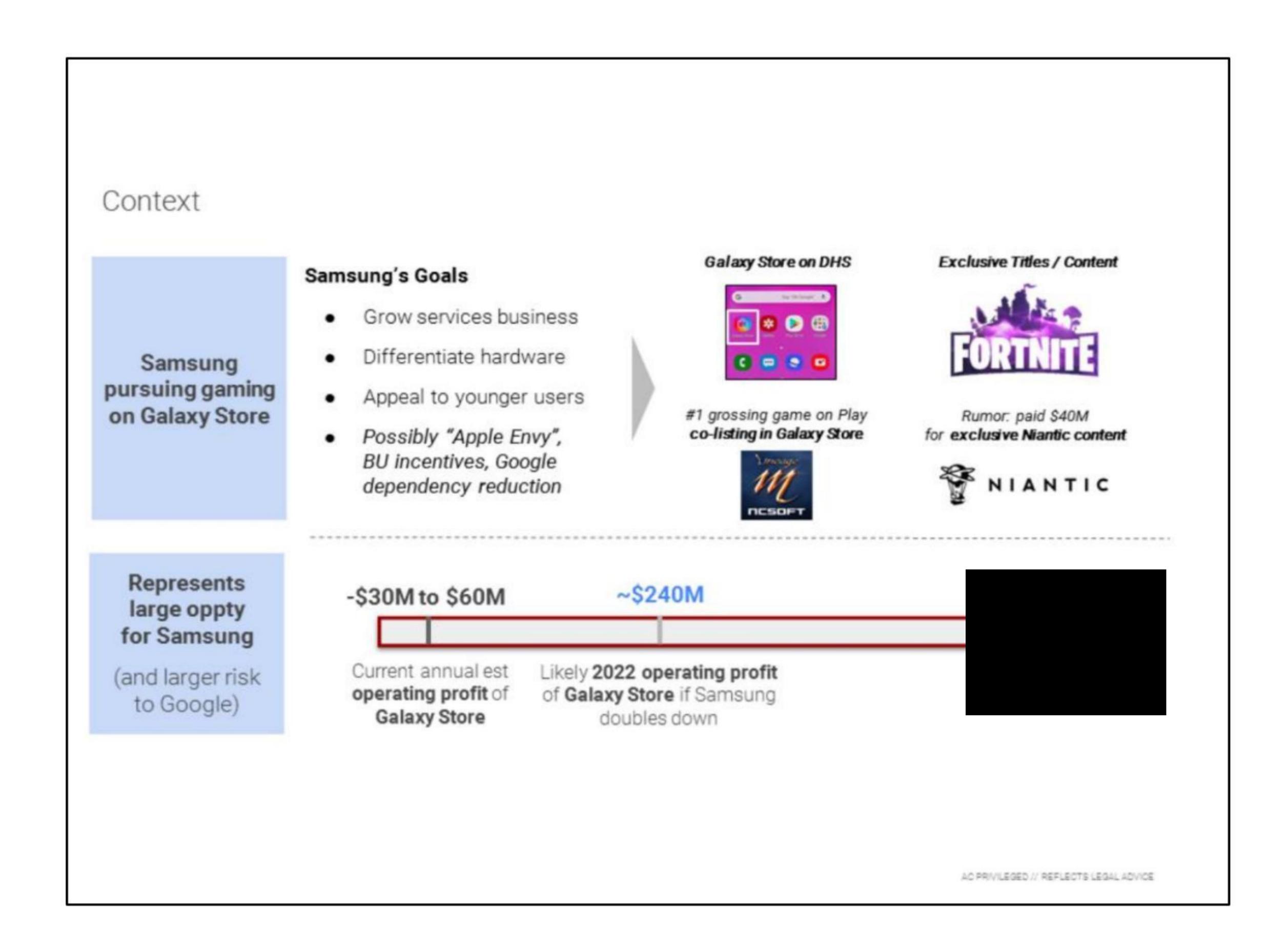


Note that P&L cost starts exceeding Cost to deliver value in 2020 & 2021 as increases

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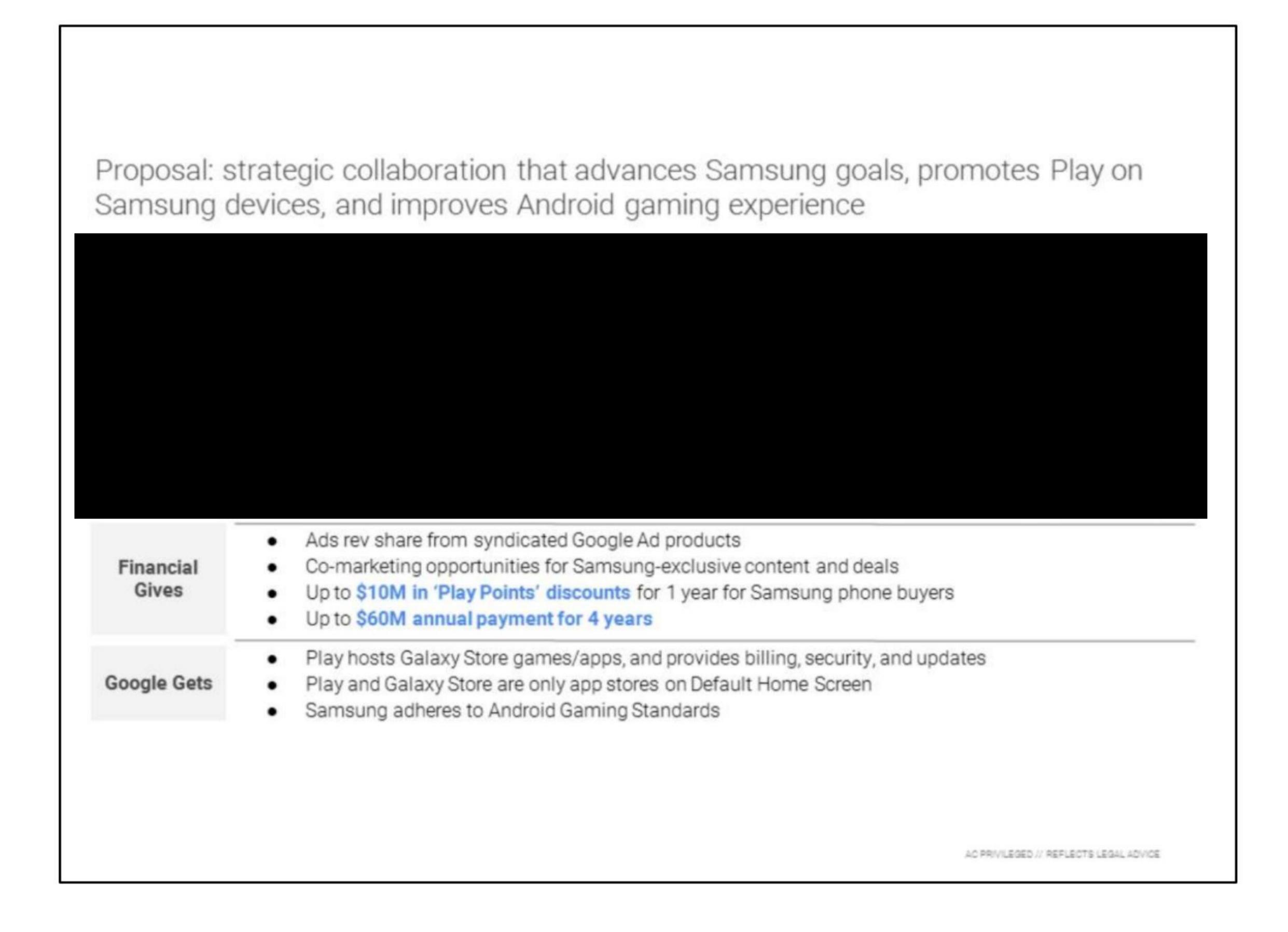


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Jamie / Jim

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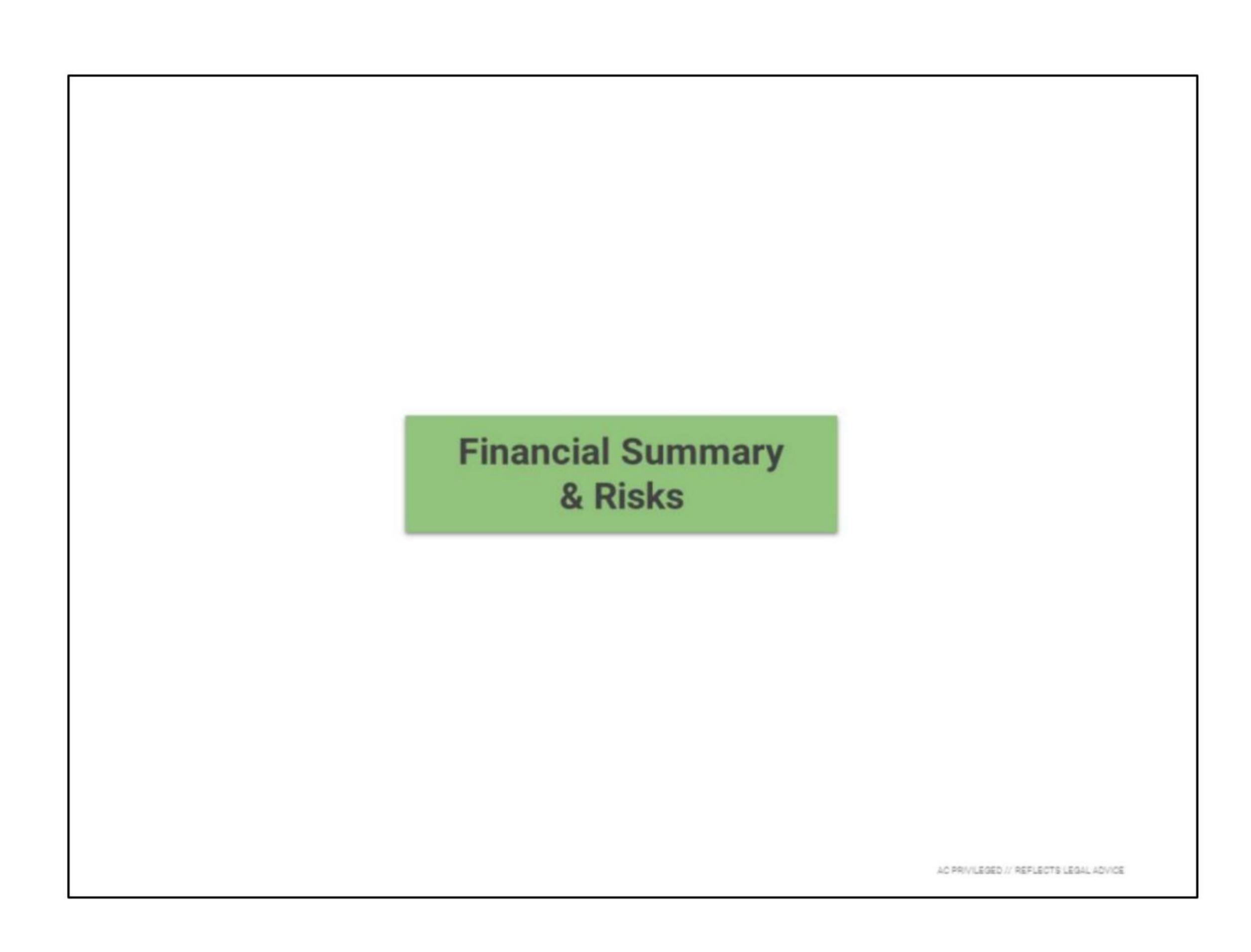


- We want to collaborate with Samsung and bring multiple levers (not just cash) to the table. Some levers are win-win (
- Upfront cash payment is needed to address their Galaxy store P&L. We are anchoring on the range of net profit that we estimate Galaxy store makes
- Potential upside from ads syndication would be lucrative for both Samsung and Google (size depends on how much Samsung is willing to partner wrt surfaces & ads targeting parameters). Samsung does not need to build its own large sales team and court devs. Can participate in the upside as several large publishers do today.
- Marketing opportunities:

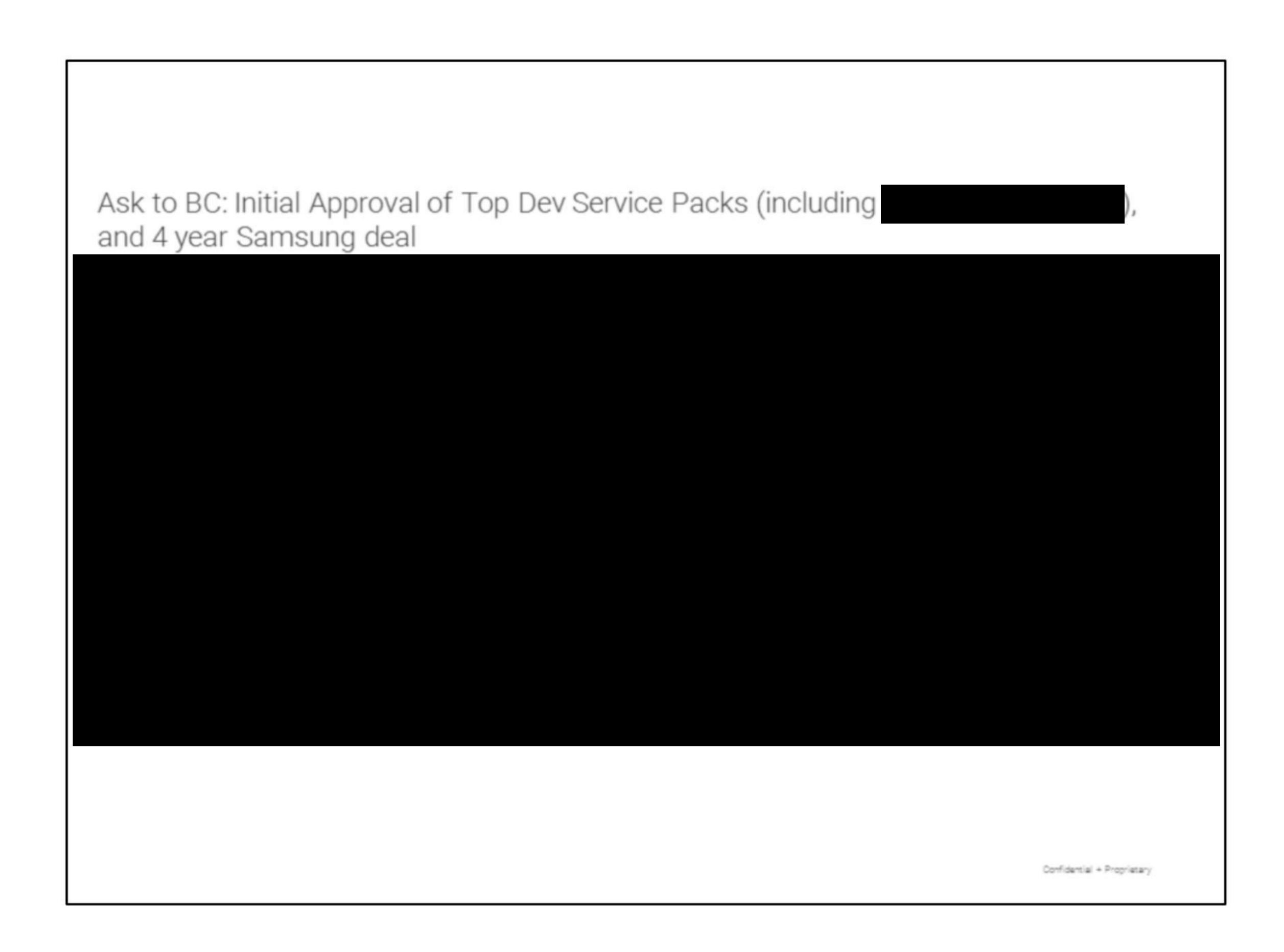


Playpoints:

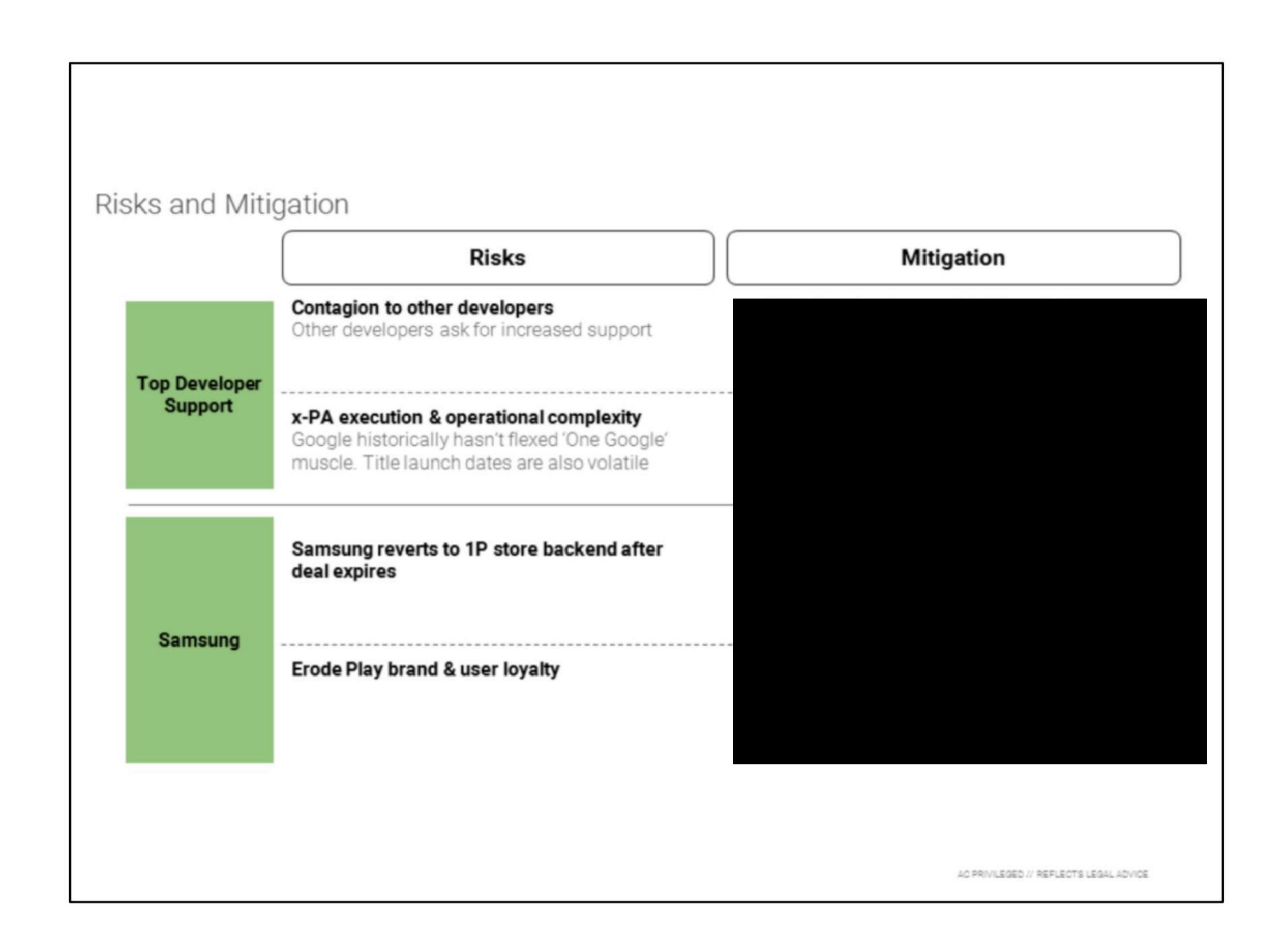
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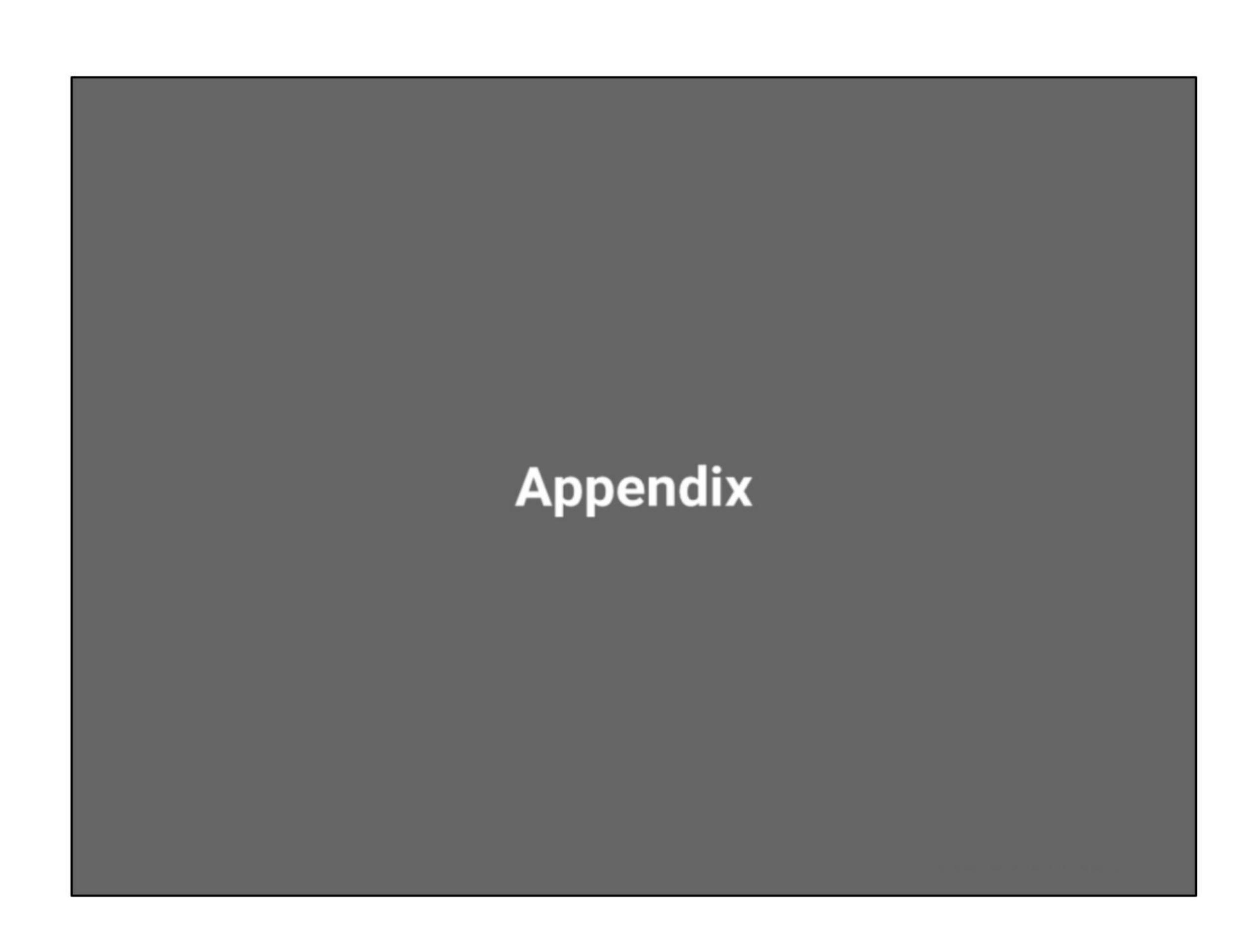


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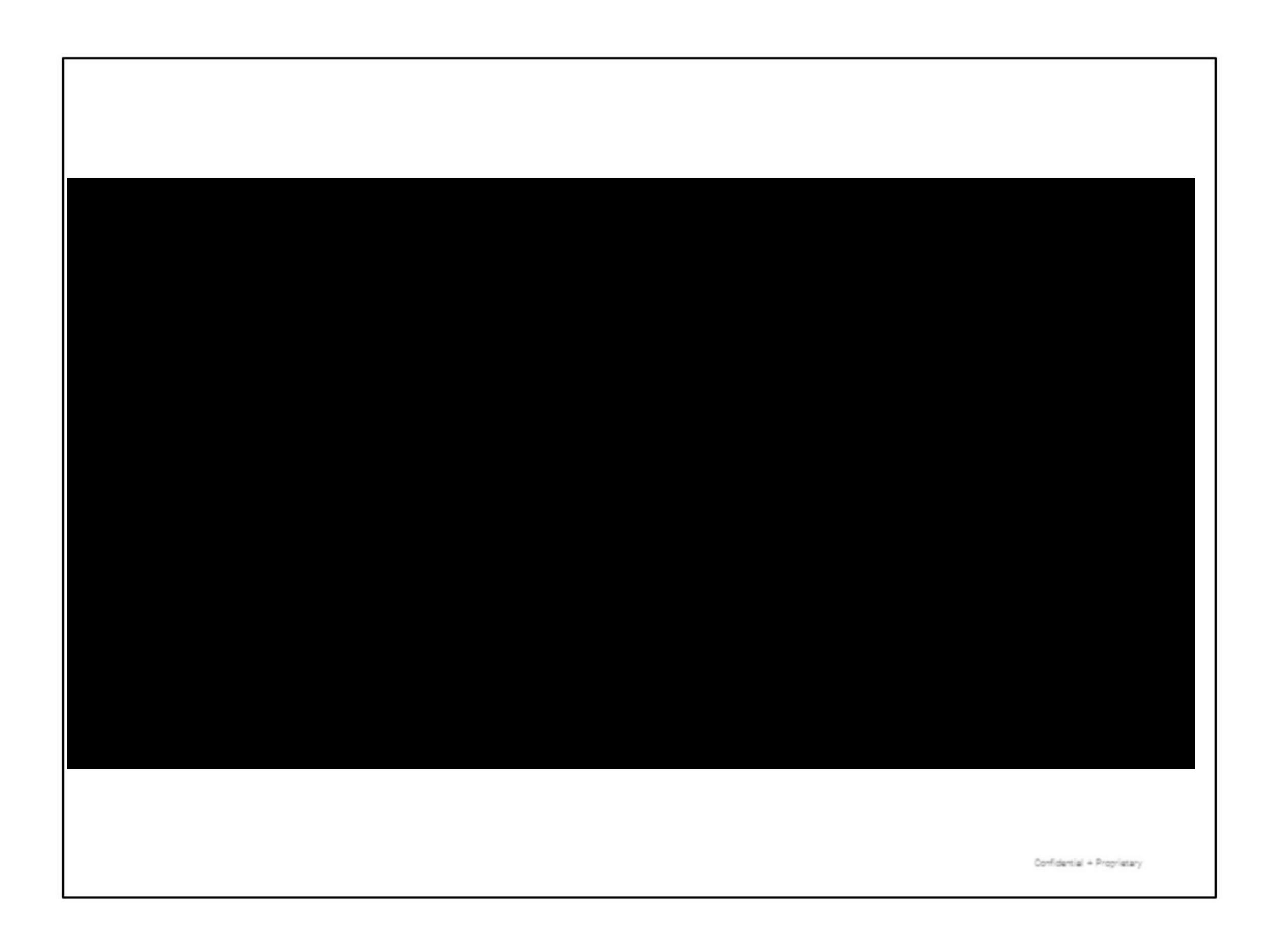
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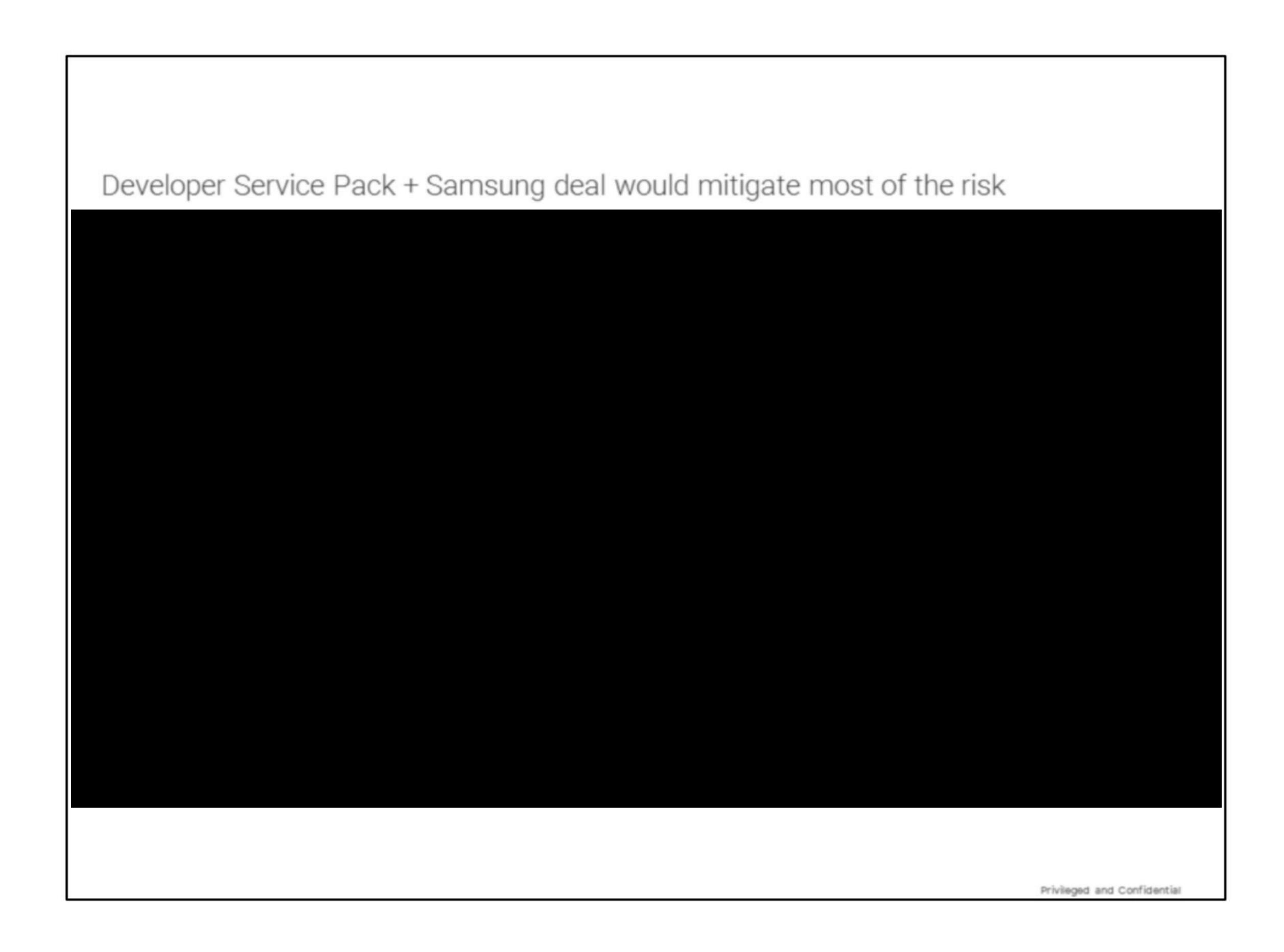


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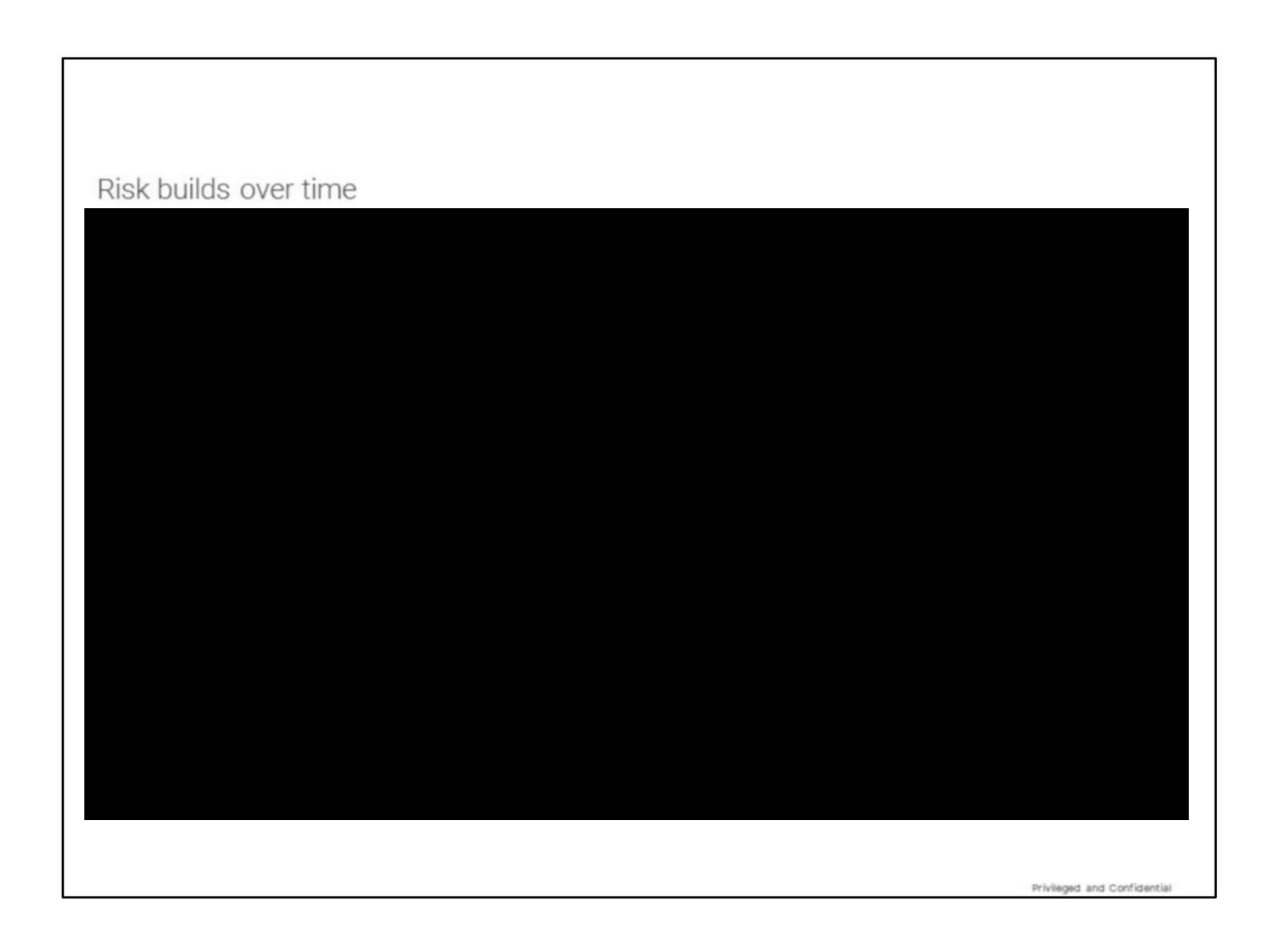
Marketing line includes and also accounts for incrementality from marketing spend

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Net Value: Mitigation - Investment

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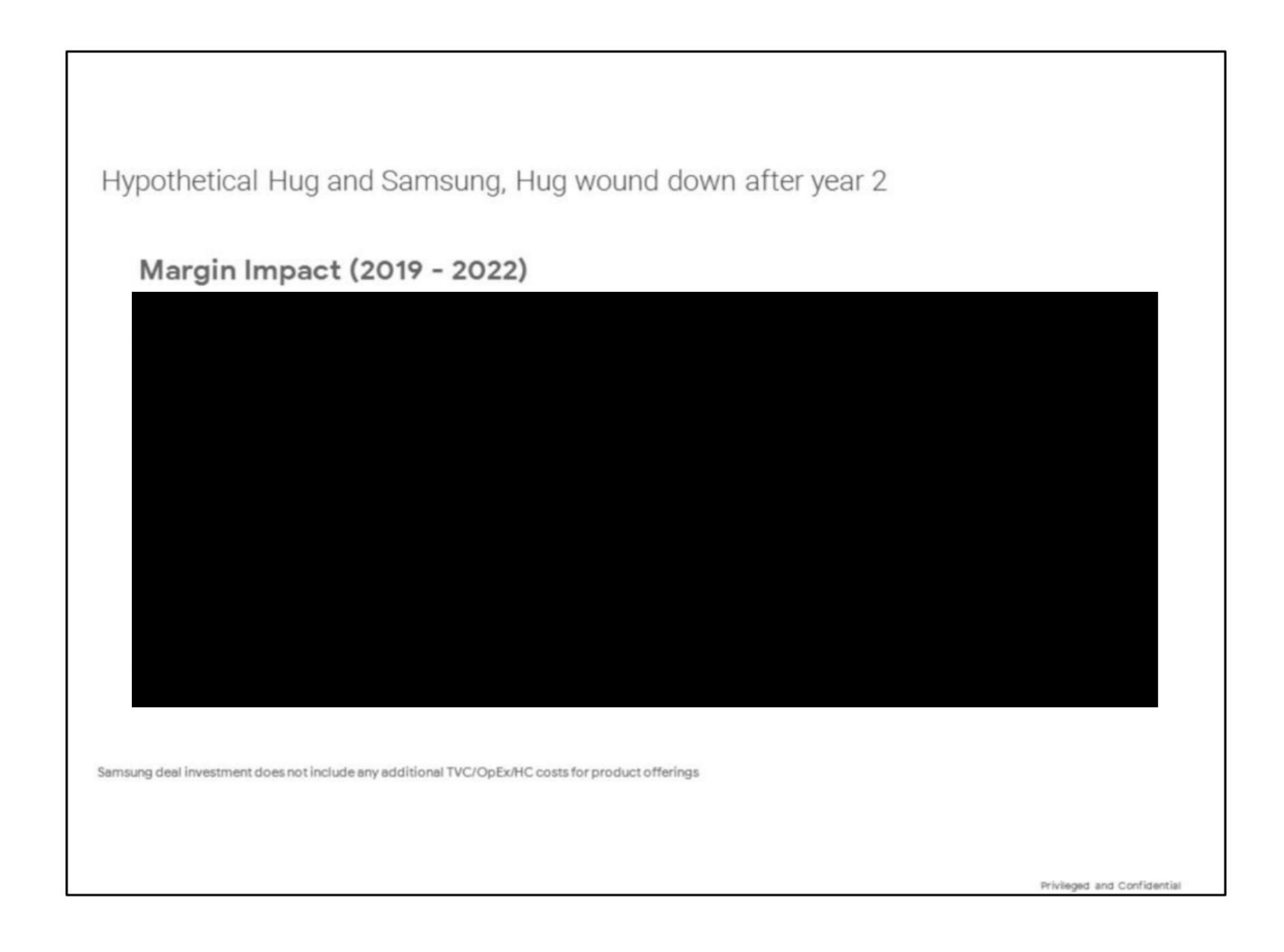
Play Revenue = Apps & Games + Ads on Play 2019 Assumptions:

Epic Store to launch Q4 2019

Risk from Samsung and Amazon store already underway with existing stores and already known co-listing of top developers (

A couple of partial exclusives off-play expected to occur in 2019 Play would still retain at least ~50% of the top developers in 2019 with most likely defection of top developers ramping up to 100% in 2020

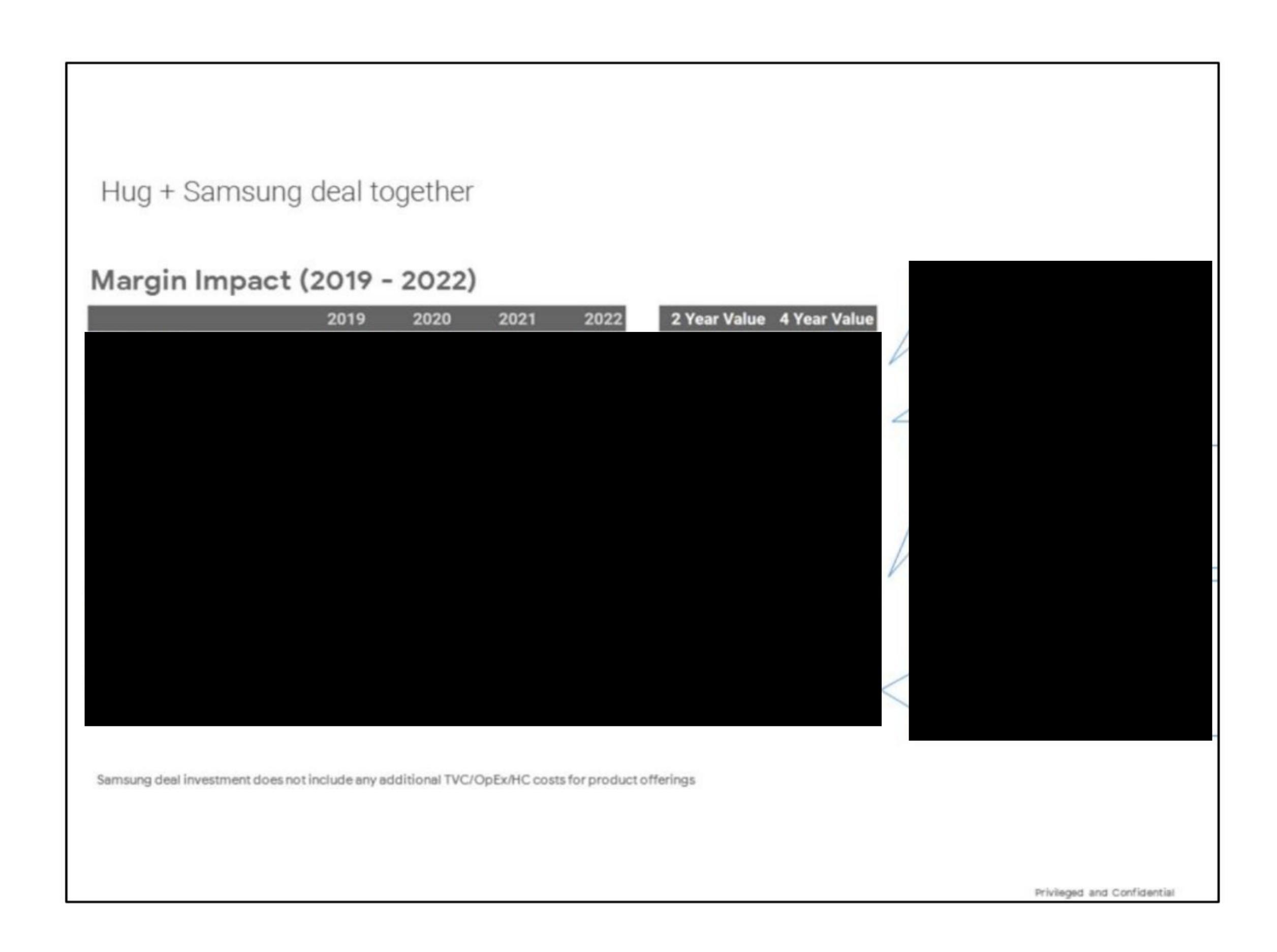
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Source sheet:

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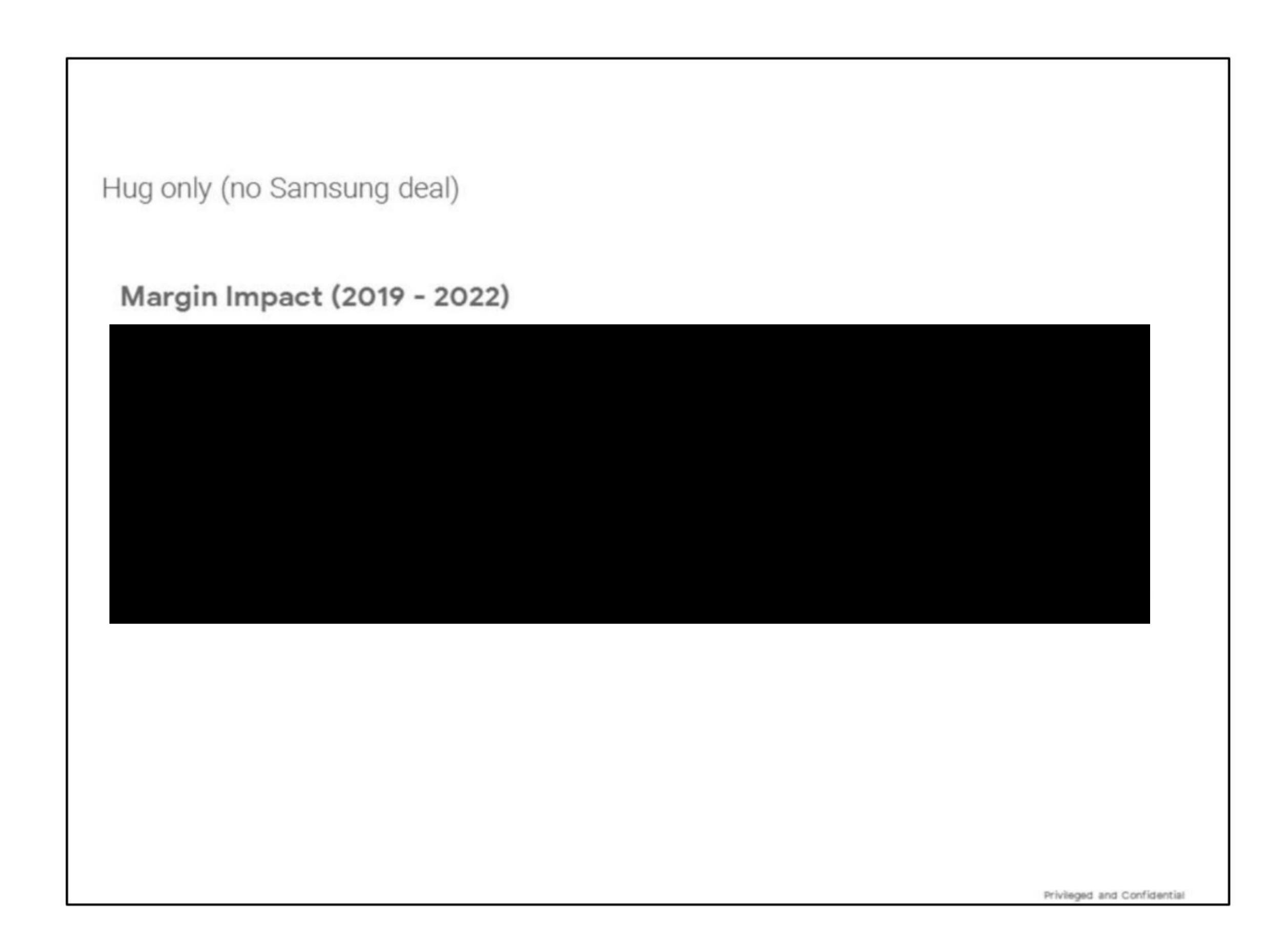
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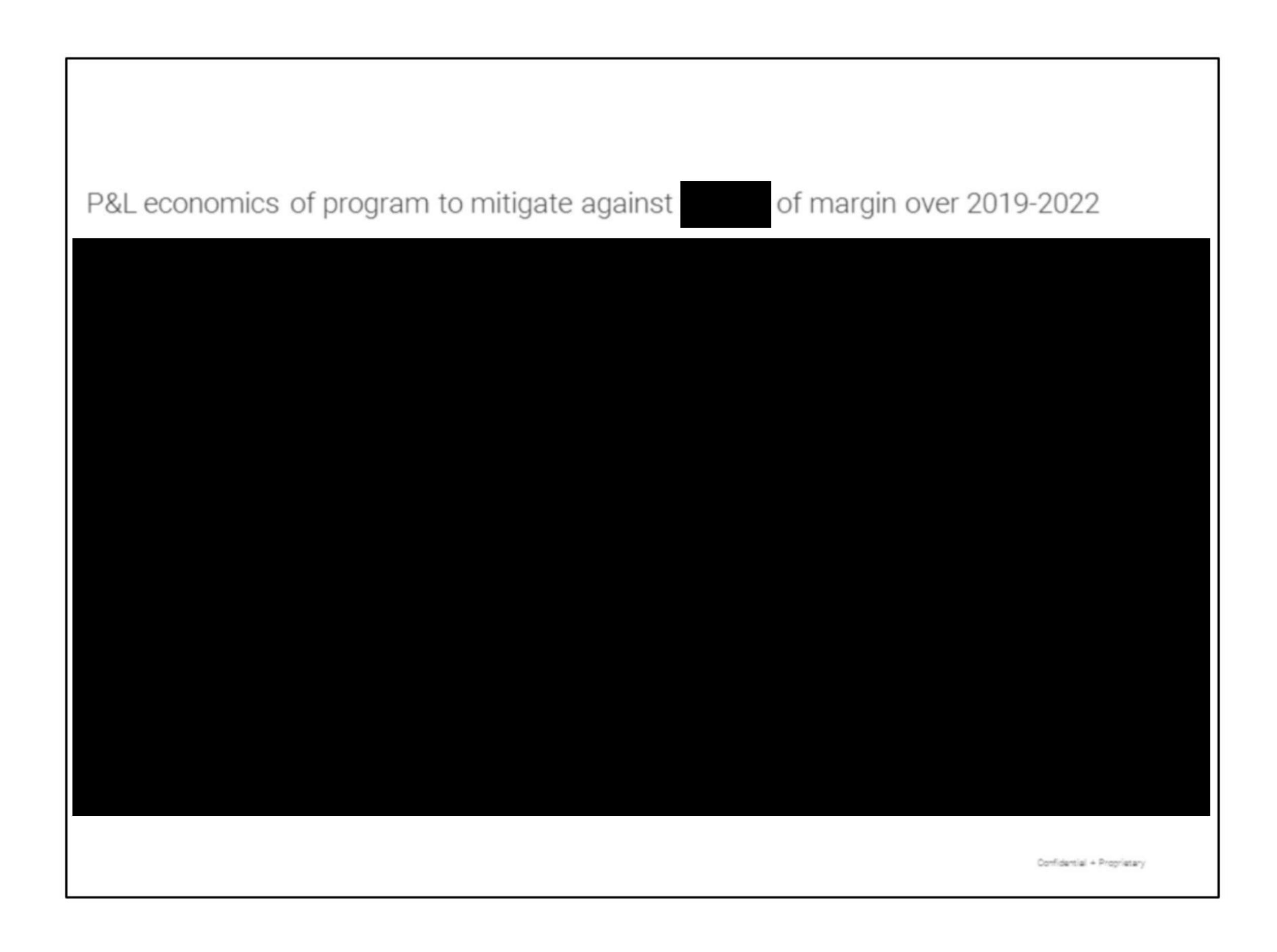
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Source sheet:

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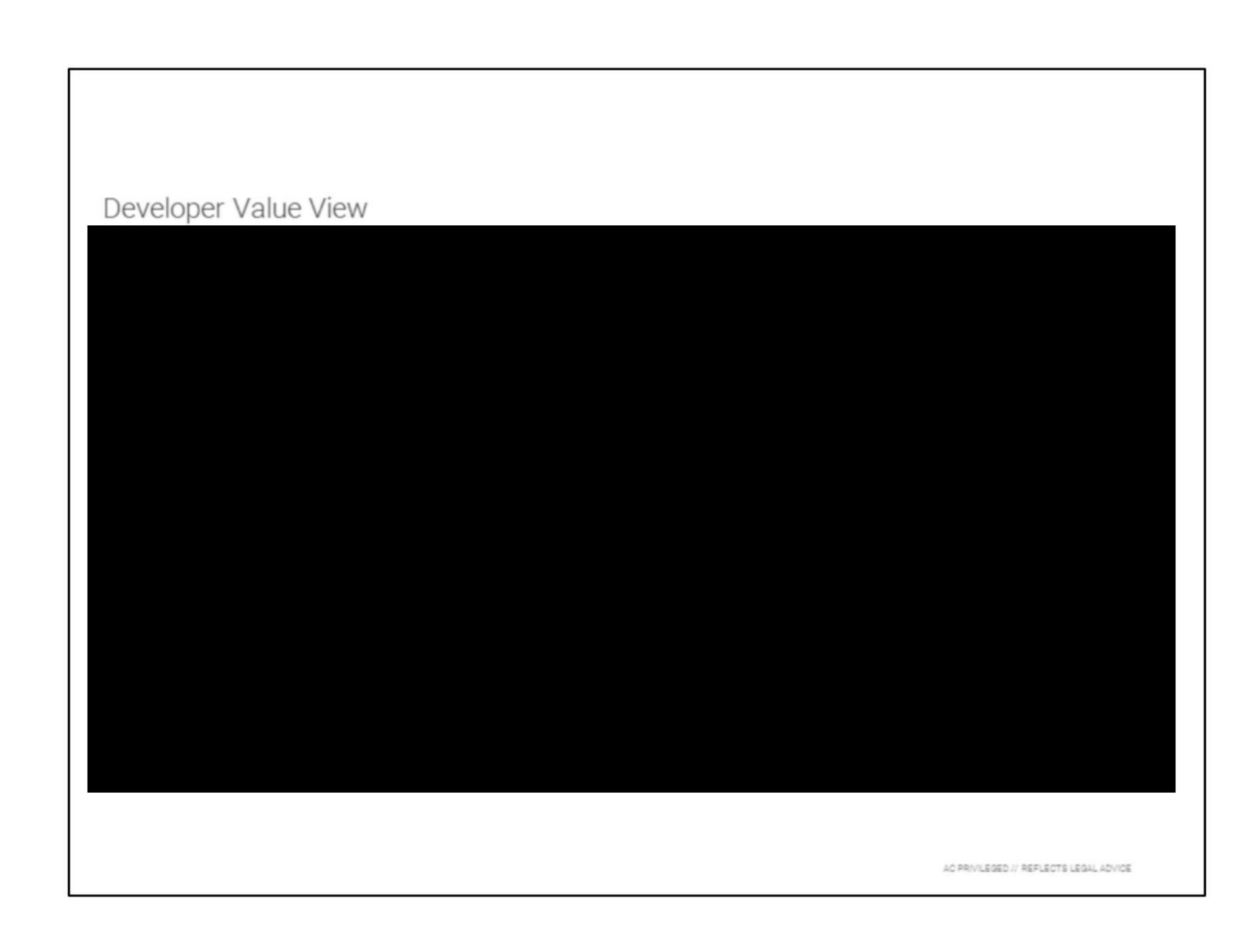


Marketing line includes and also accounts for incrementality from marketing spend

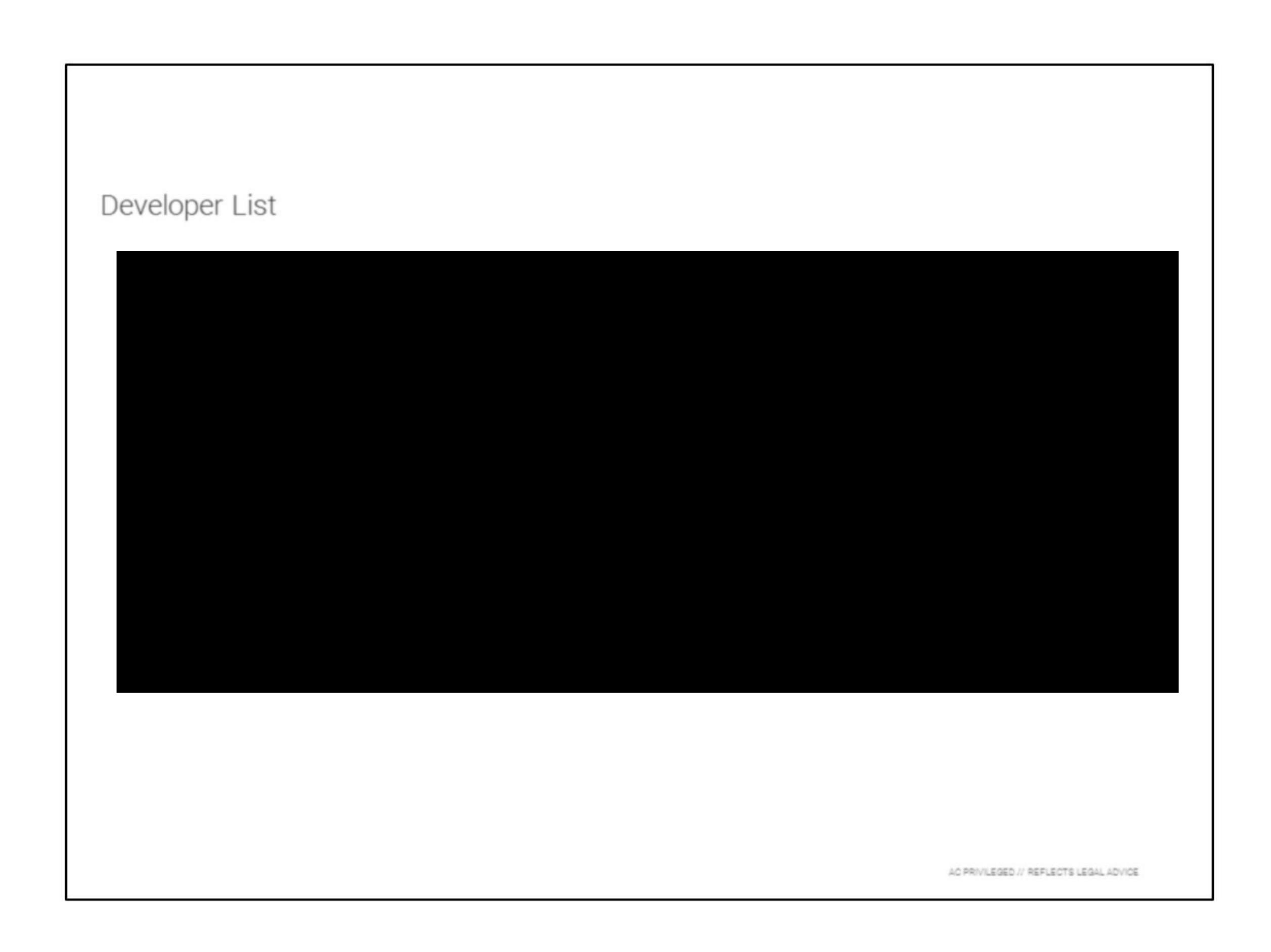
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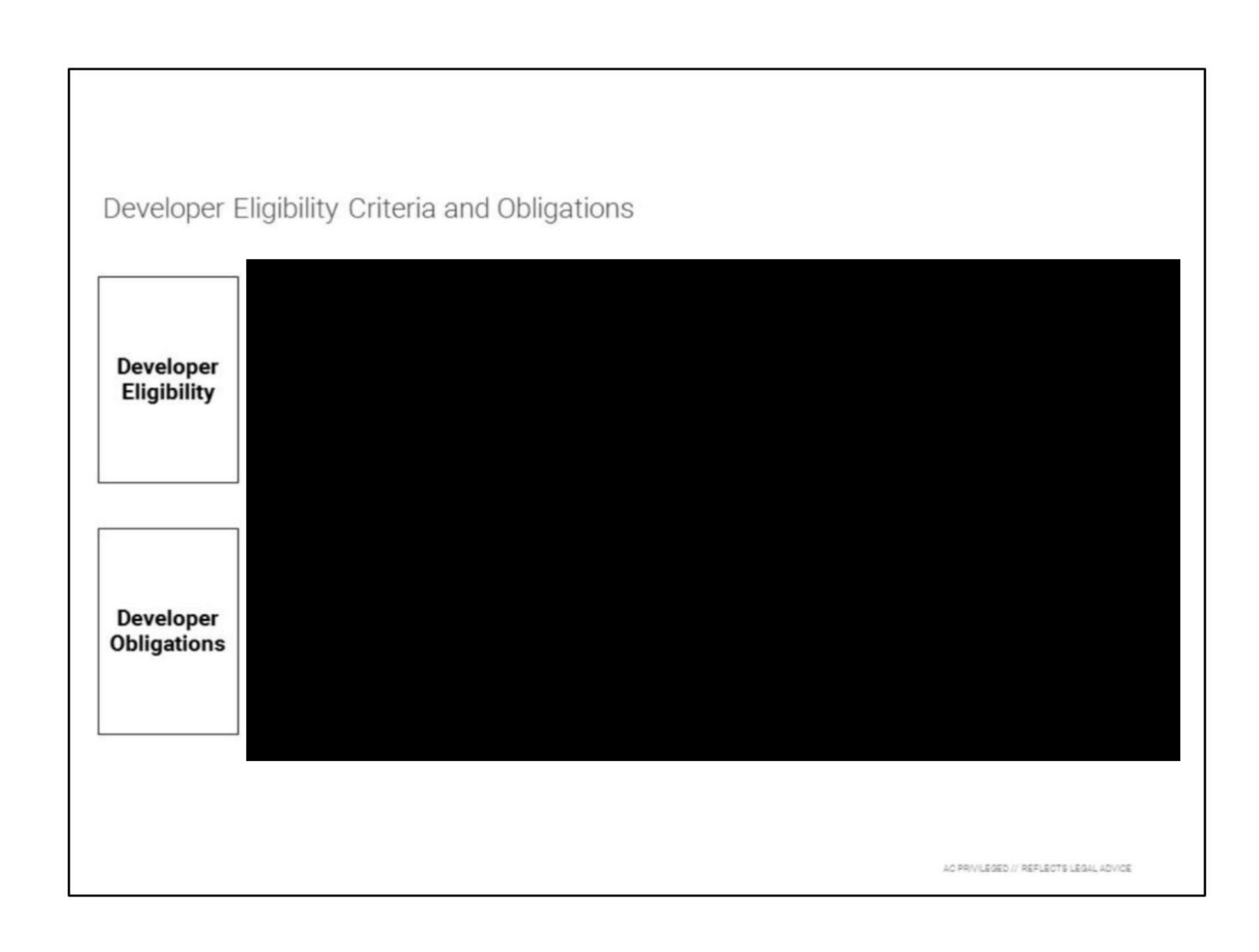
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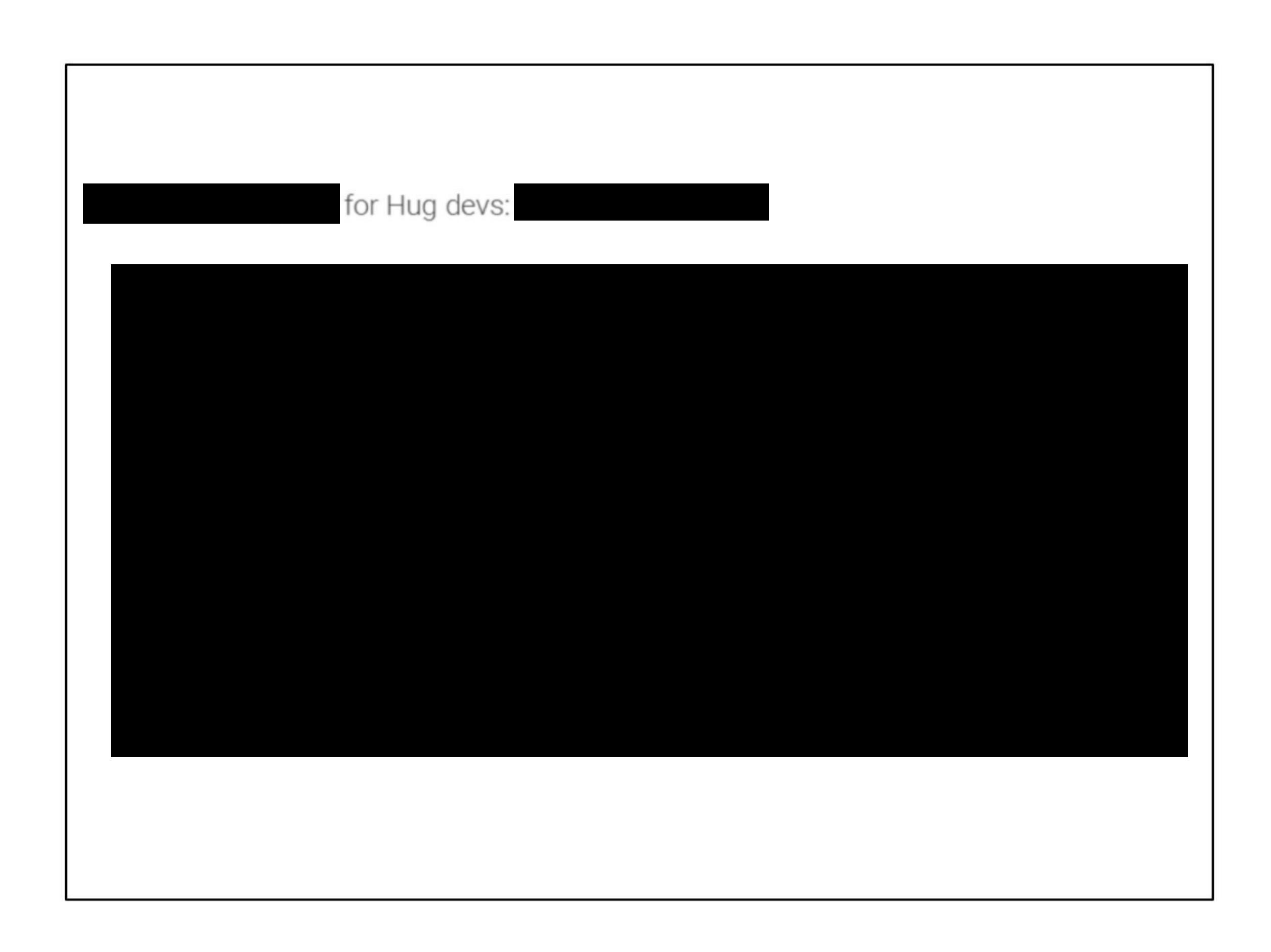
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What about Unknown Sources?

- Developers have choice on Android (key distinction from Apple). Changes to 'Unknown Sources' create legal / regulatory challenges
- We want developers to actively choose Google, and we want happy customers
- Risk still remains even with changes to Unknown Sources
 - Worse developer sentiment; "app store tax" meme acceleration
 - Alternative stores can still be preloaded
 - Sideloading remains

Epic / Fortnite

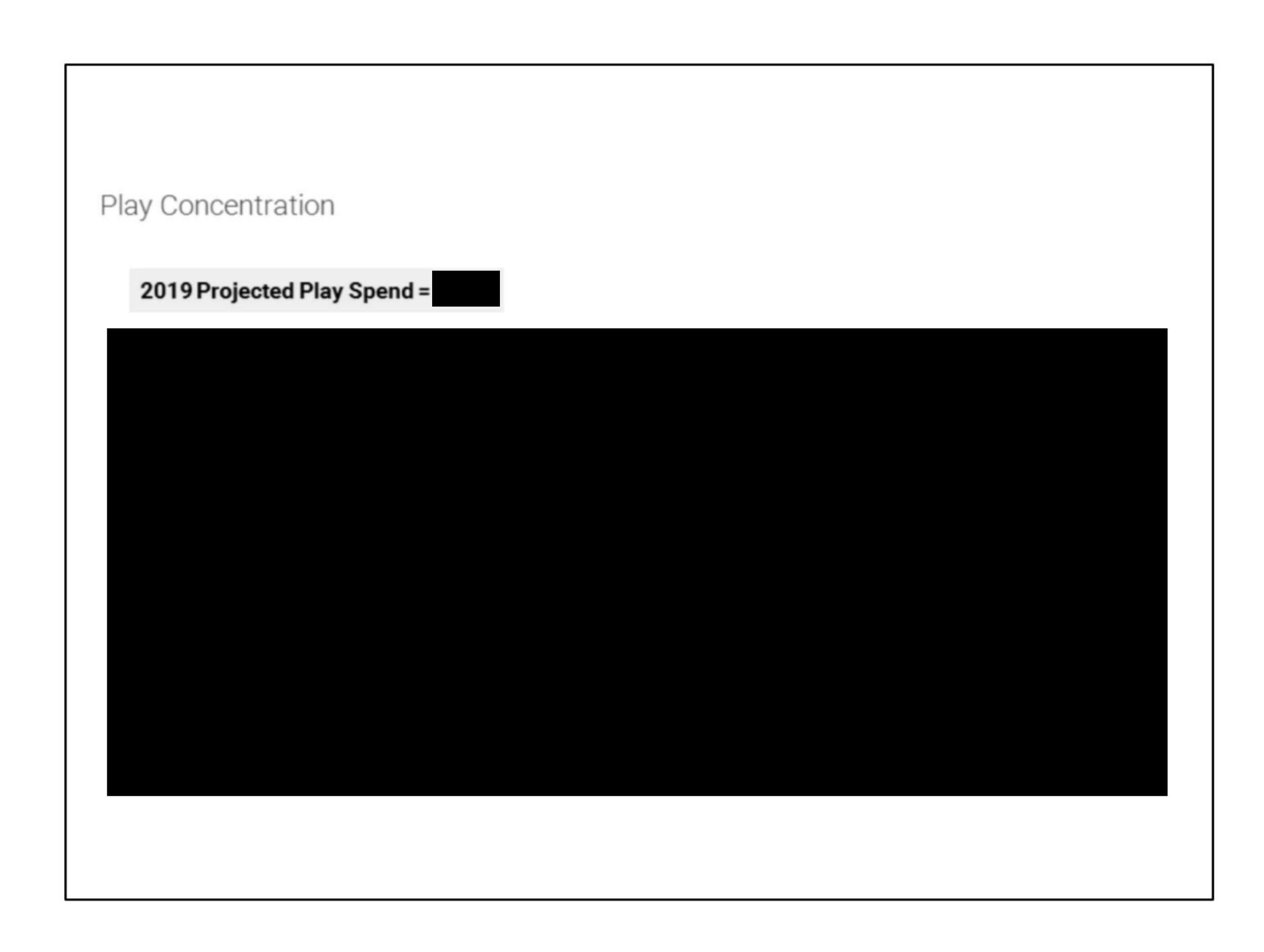
Fortnite is active on ~6M Android devices

We estimate Fortnite would have been substantially more successful had they launched on Play

However, other developers might follow Epic's path for various reasons:

- Every developer that follows Epic's path & launches on the Epic store will have less friction & a larger addressable user base than title before it.
- Developers can afford to take a ~20% performance hit on Epic store (due to 88% rev share) and still break-even. Or a ~30% hit in performance if they decide to go-it-alone.
- Developers place value on owning the entire customer relationship beyond what we assessed in our short-term analysis of Fortnite performance.
- PC / Console developers that have long term relationships with their customers already have a good knowledge of which users drive spend. They can directly convert those players over to the mobile version.
- Tencent ownership of influential developers might bias their choices.

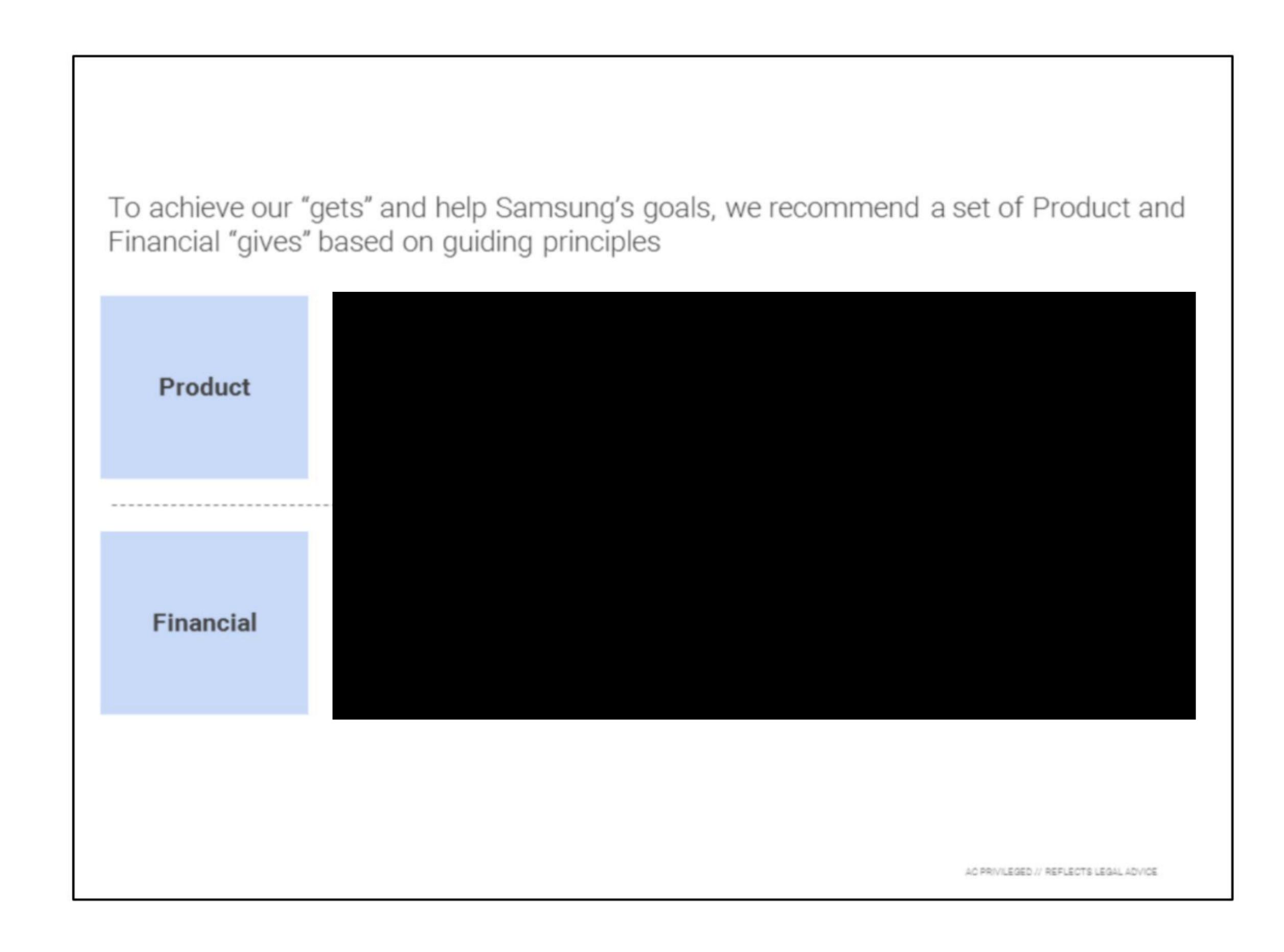
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PRODUCT OFFERS - Play as backend to Galaxy Store frontend Play backend to Galaxy Store frontend - how it would work • Surface area: All Samsung-owned surface areas that facilitate download of Android mobile apps, including Galaxy Store and Game Launcher Overview • Catalog: Apps with unique functionality or offers for Samsung users • Store layout: Samsung continues to curate content and do top-level promotion Lost Play Ads revenue due to shift of Play users to Galaxy Store Mitigation: Risks and Play brand dilution Mitigations Mitigation: Samsung reverts to 1P backend and promotes Galaxy Store after deal expires Mitigation: AC PRIVILEGED // REFLECTS LEGAL ADVICE

FINANCIAL OFFERS — Lumpsum Payment

Likely 2019 net profit of Galaxy Store: -\$30M to \$60M profits

Based on extrapolating public estimates of Samsung's Korean app business

Assumptions

Samsung revenue share is 20-30%

\$24-35M Samsung net revenue in KR

Galaxy Store Consumer Spend \$360 \$545 \$165 \$70 Galaxy store revenue (20-30% of spend) -\$15 Payment processing cost (~3% of spend) Operating cost (~250 HC) -\$100 -\$100 \$50 -\$40 Net profit (IAPs only) \$10 Ads revenue \$10

Global estimate, \$M

Total net profit (incl Ads)

250 HC OPEX to run the store

Roughly 15% size of Play team

Ads revenue: ~\$10M

 Based on impressions and CTR data shared by Samsung at GDC

Link to overall proposal

\$60

High

Low

Source: Korean industry articles; Samsung Galaxy Apps partner program, Play Finance Galaxy Store profit model

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-\$30

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Exhibit A4 Public Redacted Version

EXHIBIT 5

Google

PEX & BC review:

Google Distribution
on Android Framework
As presented at BC

June 2019

Privileged & Confidential - Reflects Advice of External EU Coursel

Privileged & Confidential

Executive Summary - We are fine-tuning Android Search Rev share (ex Samsung) to protect Google from key strategic risks

Update: RSA spend and enrollment behind the target we set with 2016 BC approval

2016 BC approval targeted 85% Android base coverage at ~15% of Total Search Distribution Revenue via Android. Due to device by-device nature of the deal, we are (1) not getting protection on some devices and (2) getting very limited traction in the "bonus" tier that is supposed to align OEMs with Google's xPA priorities

Since 2016, Android dynamics changed and we have higher exposure of Search and Play revenue than before

Chinese OEMs and Samsung are actively investing in creating own app and services ecosystems; Microsoft and Amazon pursuing
distribution deals on devices not covered by RSA; and Android market share is under pressure in developed carrier led geos

Ask: Spend in 2023 across Search and Play for carriers and non-Samsung OEMs to secure platform protections for Search, and Play and critical apps protections on more devices

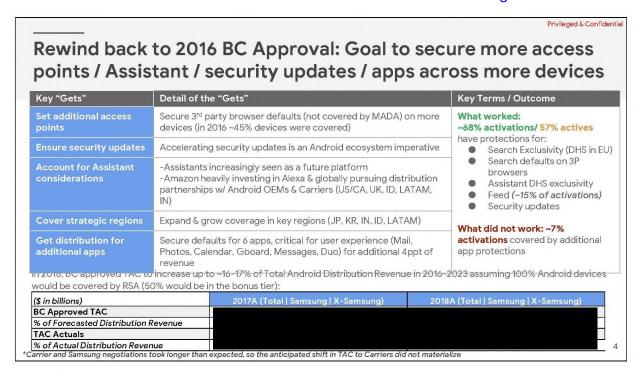
- Introduce a new platform tier of RSA to secure browser defaults and assistant DHS exclusivity & gesture at scale
- Offer up to Play rev share to OEMs to key CN OEMs, to smaller OEMs), spending est. in 2020 and up to in 2023 (steady state) in addition to the bonus tier of current RSA to secure Play exclusivity, Android upgrades, and distribution for critical apps (Comms suite, Pay, Photos, Gmail, Gcal, Discover suite)
- Offer additional **4ppt of Search & Assistant revenue share to most strategic partners** (for total of and and for carriers) to incentivize clean UI devices with full set of Google apps

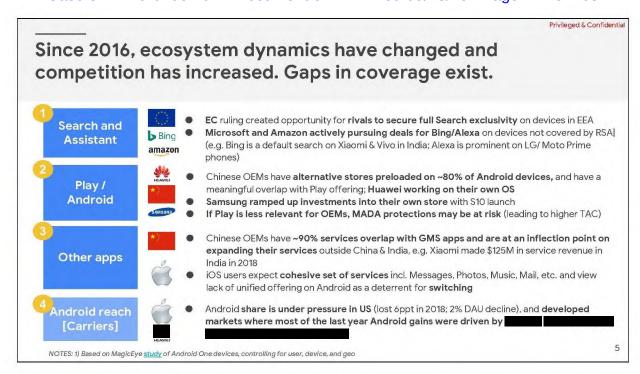
Note: Total Search Distribution Revenue via Android Forecast includes Non-RSA Partner Dist, Rev

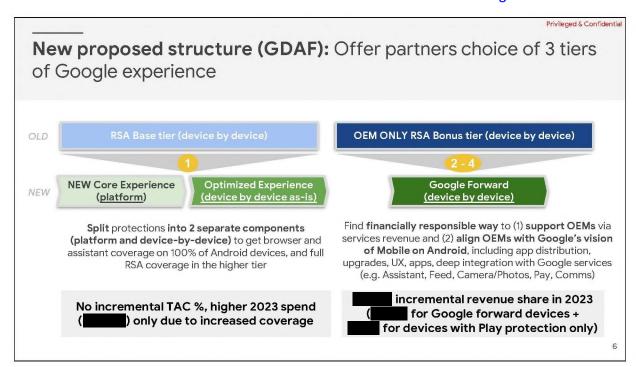
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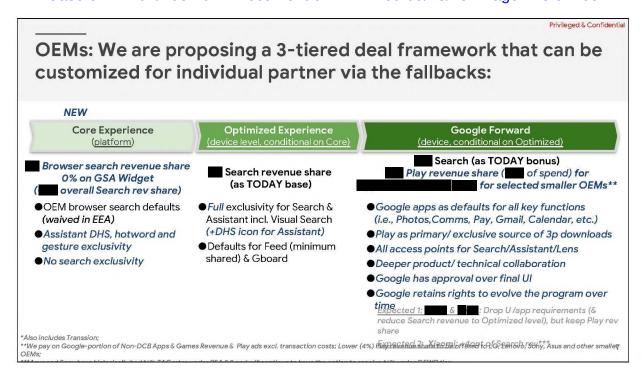
Scope: Proposed changes will impact ~70% of Android activations and Search Distribution Revenue via Android

Formatting



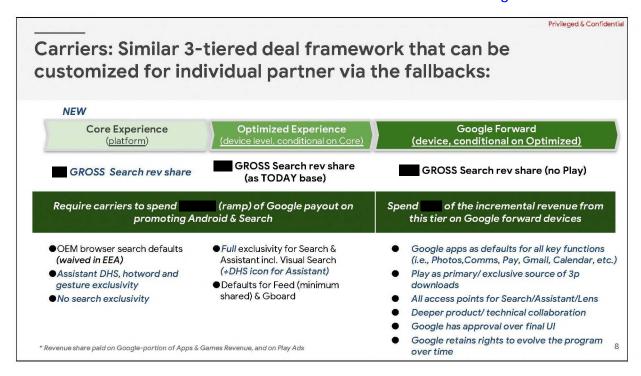


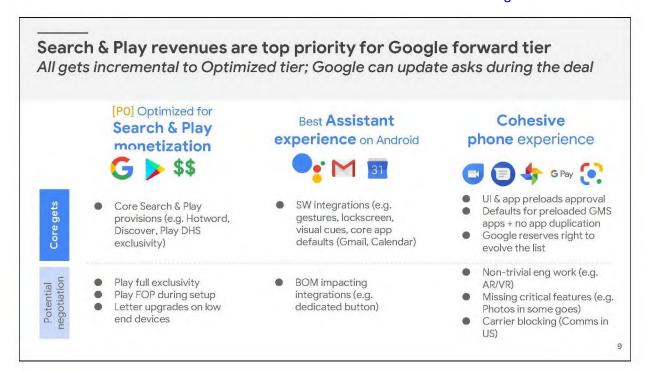




OS Upgrades and Play Exclusivity

Google approves the UX/SW experience, subject to change by Google, which today includes: deep integrations for Assistant, Clean UI, Defaults/ exclusivity for Comms, Pay, Photos, News/Podcast, Gmail, GCal)



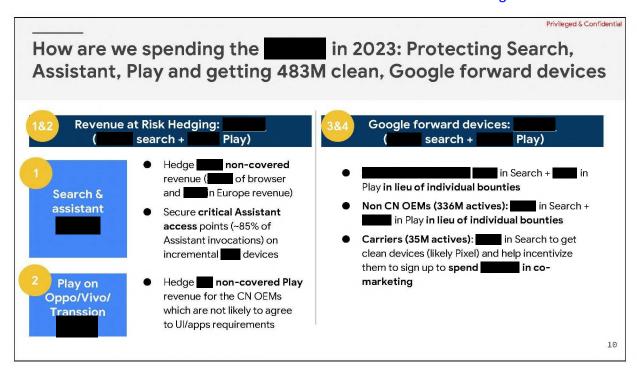


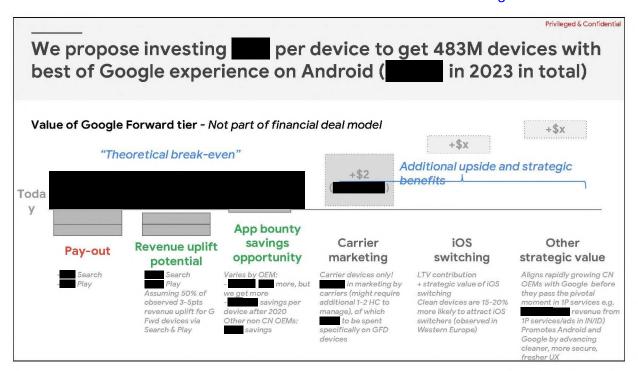
Guiding principles

P0: Core Search and Play provisions are non-negotiable. We reserve the right with OEMs to also request implementation of additional revenue generating features (e.g. Play FOP setup in OOB)

P1: Assistant integrations are top priority. Only negotiable items are provisions where OEM BOM is impacted (e.g. HW buttons, DSP integrations, etc.). Waiving such provisions will result in a lower pay-out for the partner

P1: Cohesive phone experience (i.e. UI and app preload approval): Non-negotiable (including no duplication of GMS apps). Google reserves the right to change/evolve the list of requested apps based on feature availability (e.g. Comms in JP), or changed priorities (e.g. require Camera integration, GPay additional features, etc. in the future)





Strategic

Aligns rapidly growing CN OEMs with Google before they pass the pivotal moment in 1P services growth (e.g. Xiaomi generated revenue from 1P services and ads in IN/ID)

Promotes Android and Google by advancing cleaner, more secure, fresher UX

App efficiency

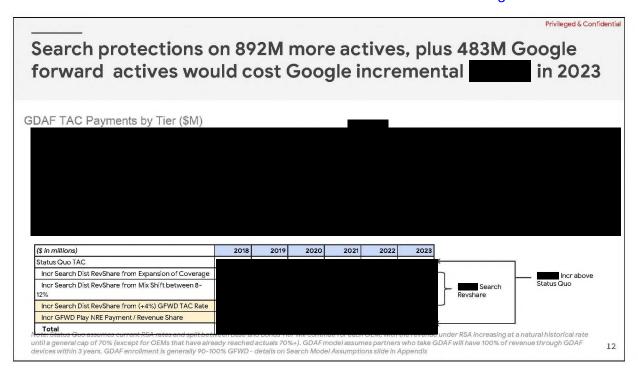
Per device** and operational savings by consolidating standalone bounties: Xiaomi: LG: Other non CN OEMs: savings per device (incl. HW button)

Additional potential upside (not part of the deal model)

in marketing by carriers (might require additional 1-2 HC to manage)

3-5pts revenue uplift for Google Forward devices via Search & Play

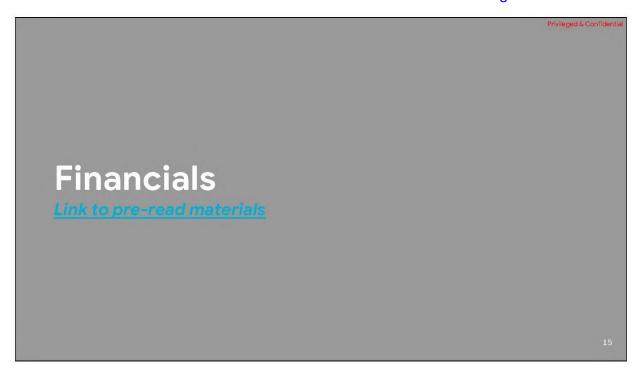
Clean devices are 15-20% more likely to attract iOS switchers

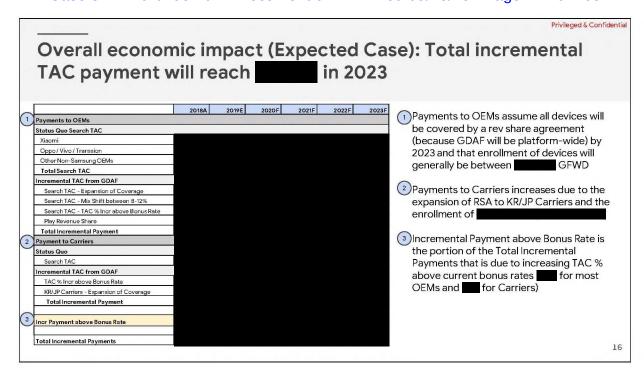


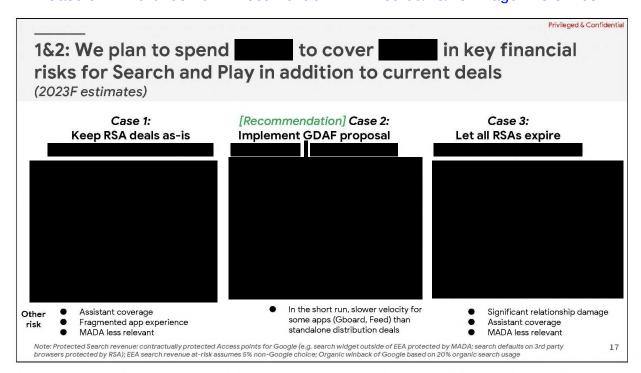


Mandated carrier reinvestment is ______ in each year Other OEMs includes rampdown from Huawei RSA devices

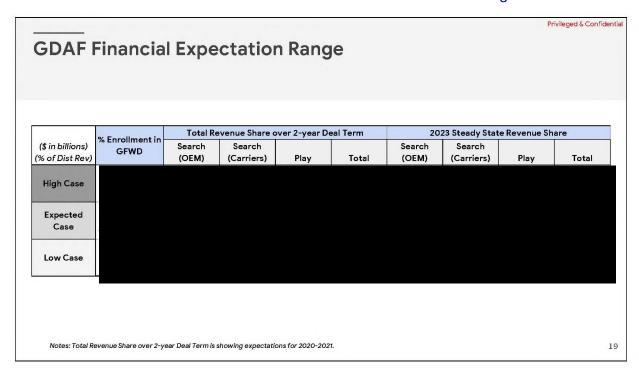


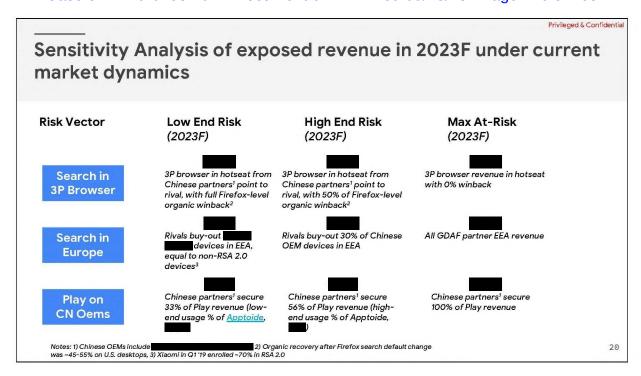


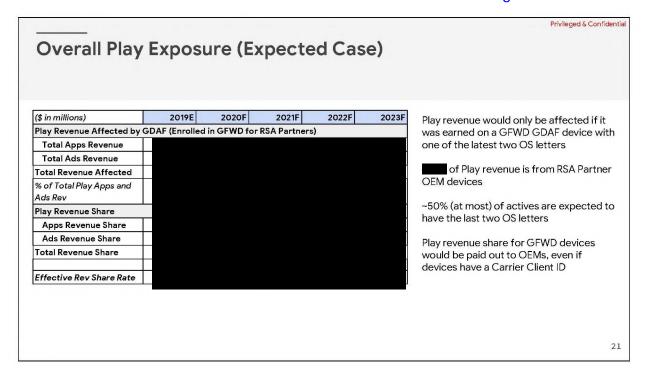


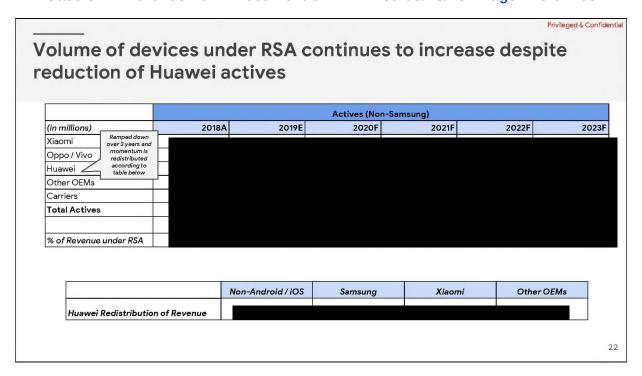


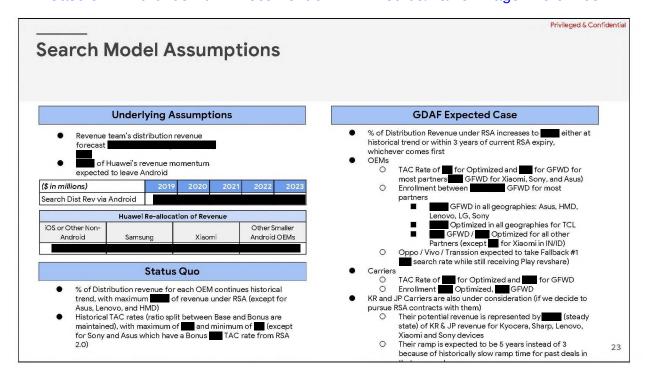


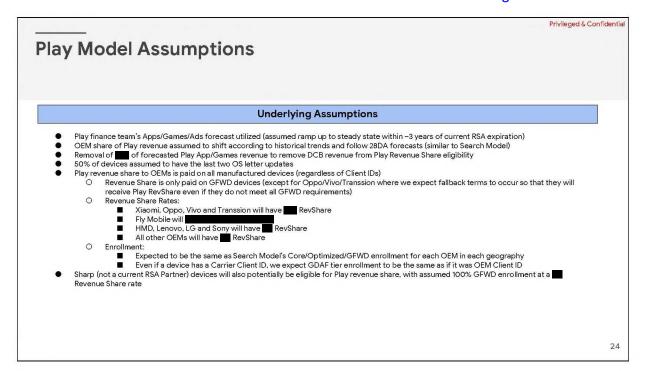












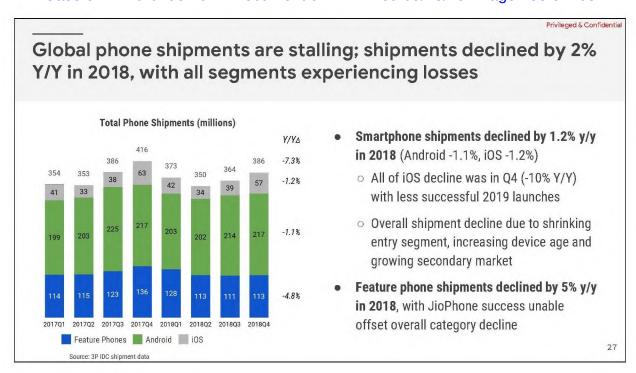
Privileged & Confidential

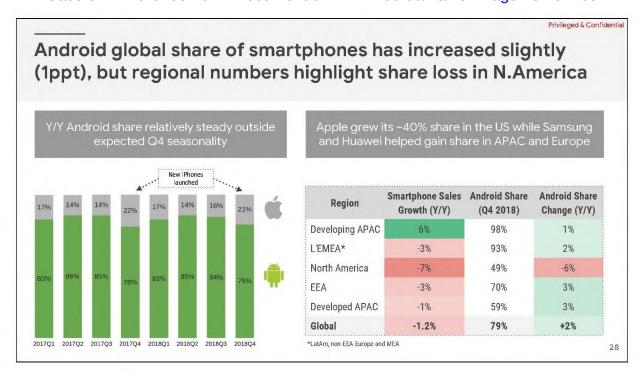
Detailed Materials (Appendix)

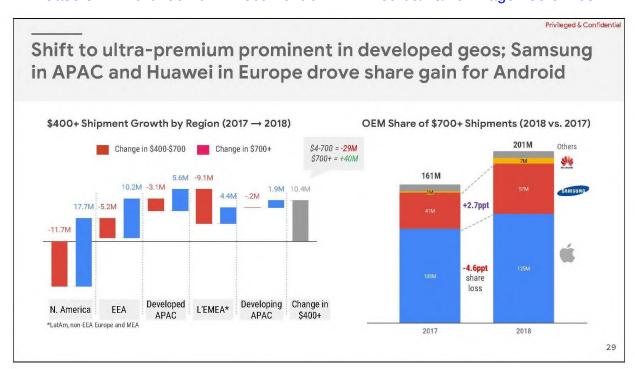
- 1: (Pre-read) Context on Android ecosystem
- 2: (Pre-read) 2016 RSA overview
- 3: (Pre-read) Europe impact
- 4: Detailed review of GDAF proposal

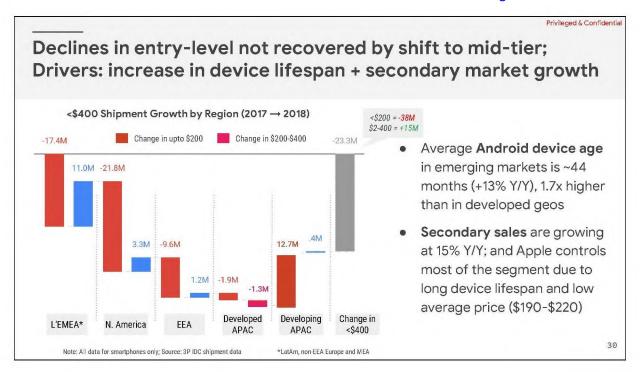
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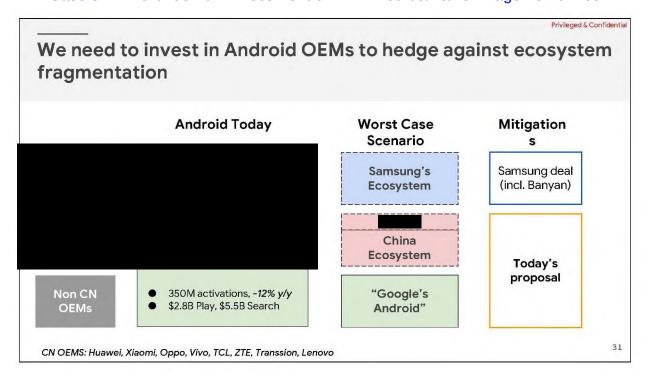
Pre-read
(Context on Android
Ecosystem)



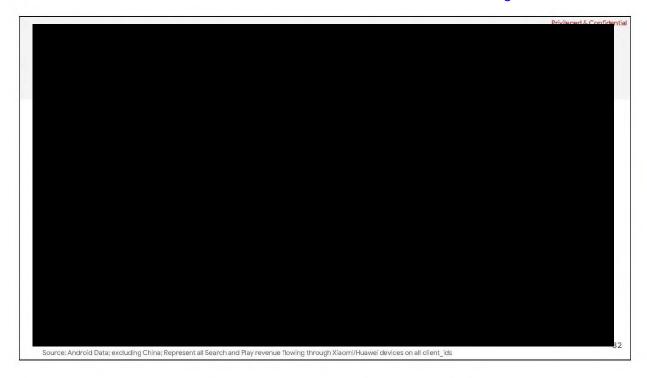


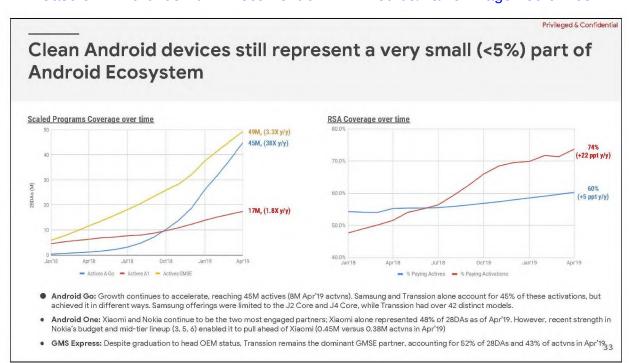




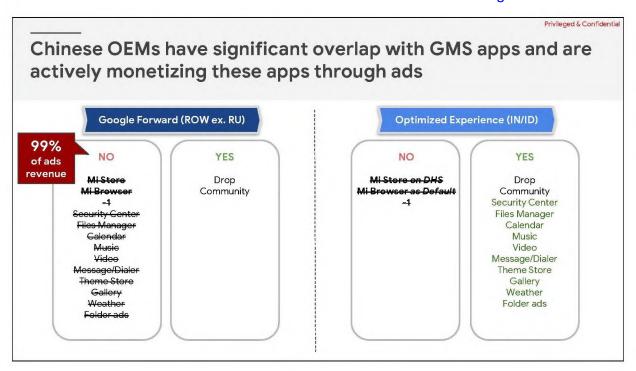


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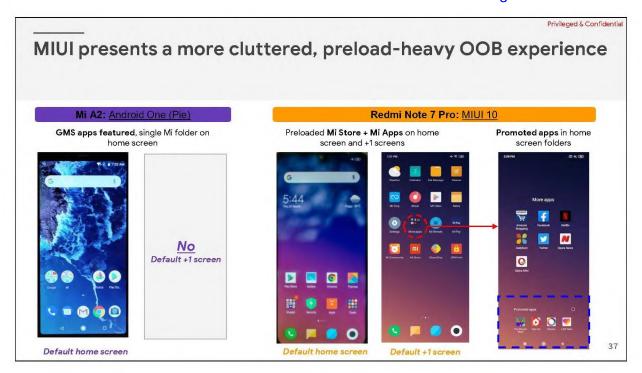


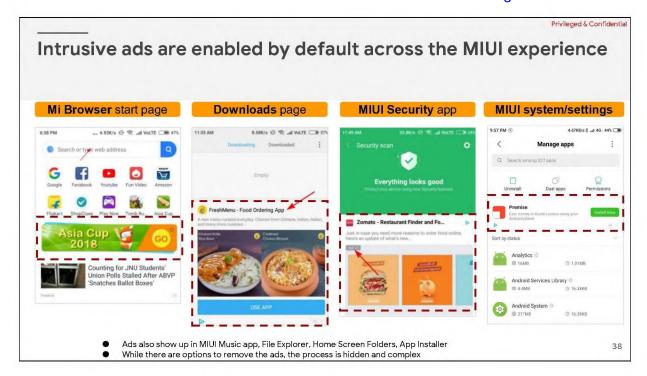


^{*}Global UI has a team of 400

^{*}All apps listed are Xiaomi first party

Chinese OEM own apps are often getting substantially more traction on their devices than substitute GMS apps

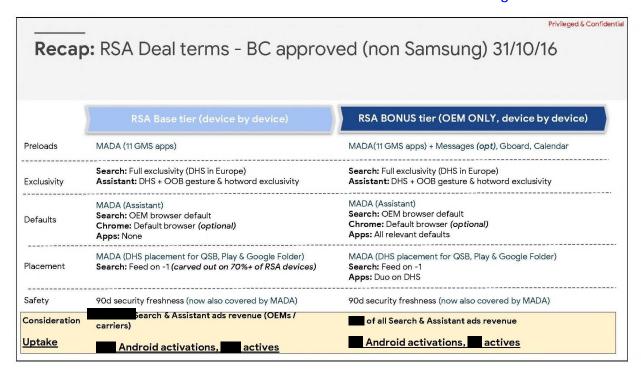


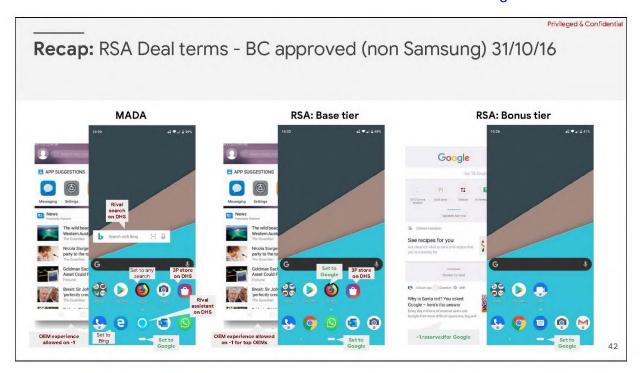


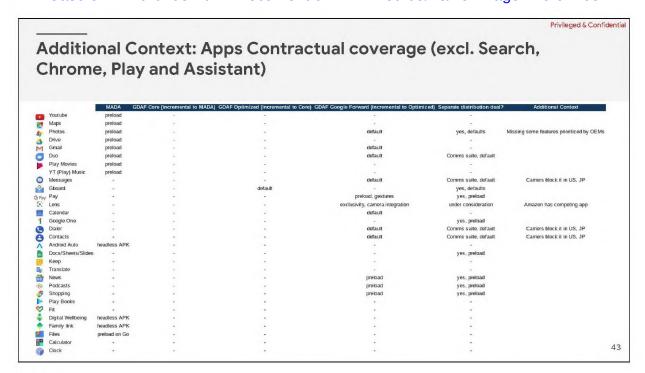
Pre-read (update on 2016 RSA)

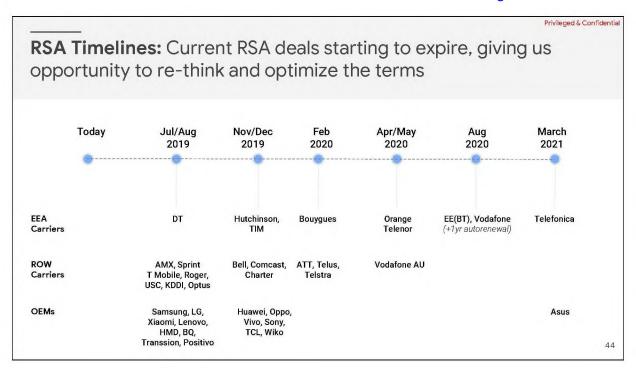


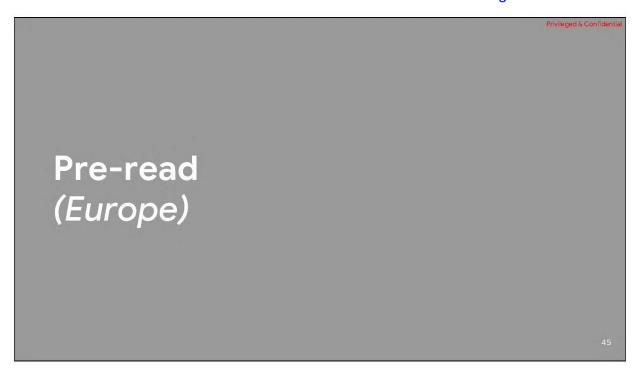
Introduction to what Android core commercial agreements are, and their basic premise

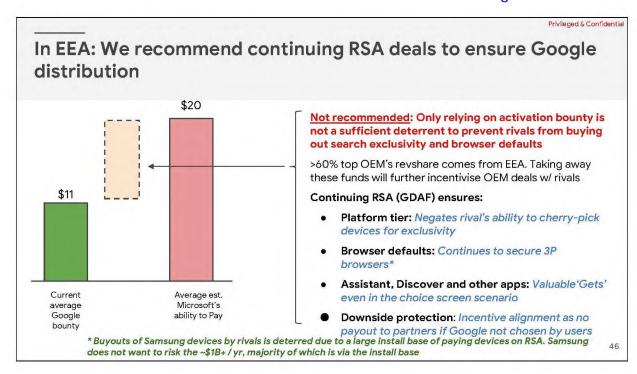




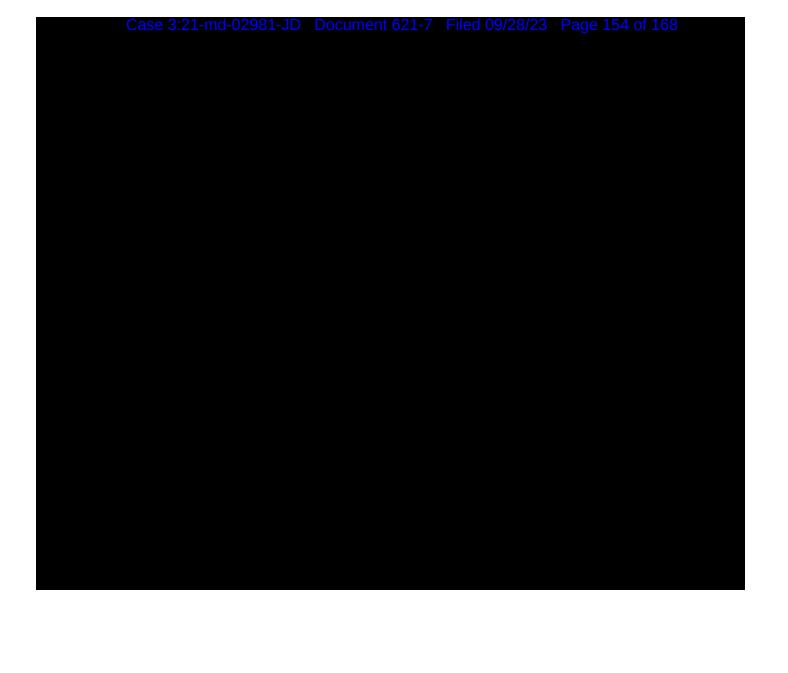






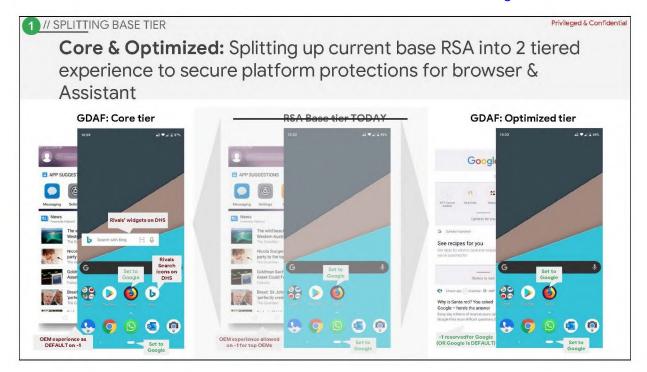


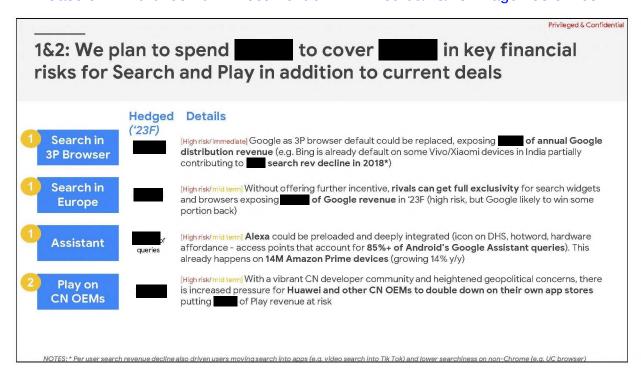
Worst case scenario: Devices with exclusive rival providers for search, assistant and browser Microsoft amazon MSFT / AMZN distribution: Search app exclusive on device Exclusive search widget + icon placement on DHS 4:51° ₺ Competitor launcher set OOB with all search access points set to competing search service ■ Browser default and exclusive on device, with competitor search service as default Assistant icon on DHS and enabled with OOB hotword and gesture -1 screen controlled by competitor search app / feed Estimated average rival offering ->> \$20/device \$14/device ++ 47



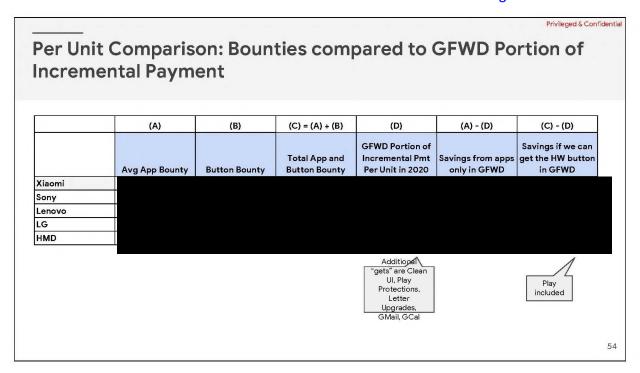
Details on the GDAF proposal

| incentives to go all Google while securing key access po | | | |
|--|---|---|---|
| New terms | Core Experience PLATFORM | Optimized Experience DEVICE BY DEVICE | Google Forward DEVICE BY DEVICE |
| Preloads | MADA | MADA + GBoard | MADA + Google defined payload; Google has approval on all preloads; PAI used |
| Exclusivity | Assistant: DHS + OOB gesture & hotword exclusivity | Search: Full exclusivity Assistant: Full exclusivity | Google exclusivity and defaults for all preloaded apps; use stock Android UI; No apps with APK install rights |
| Defaults | Search: No exclusivity OEM browser default Chrome: Default browser (optional) | Search: OEM browser default Chrome: Default browser (optional) Gboard: Default | |
| Placement & Gestures | MADA Search: Feed on -1 required (shared tab with partner default okay) Assistant: Powertap | MADA Search: Feed on -1 required (shared tab with Google default as fallback) Assistant: icon on DHS + powertap | MADA Search: Feed on -1 Assistant: icon on DHS, enhanced integrations (Google defined payload e.g dedicated button) |
| Play | MADA | MADA | Exclusivity |
| Safety & Updates | | | 60d security freshness, last 2 letter updates |

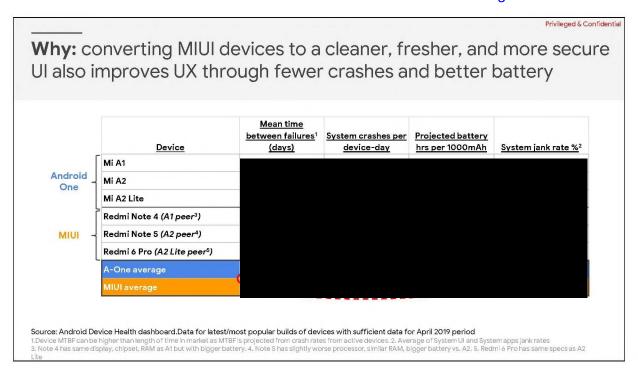




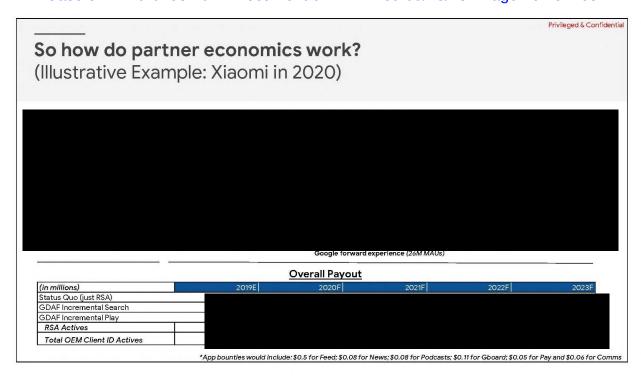




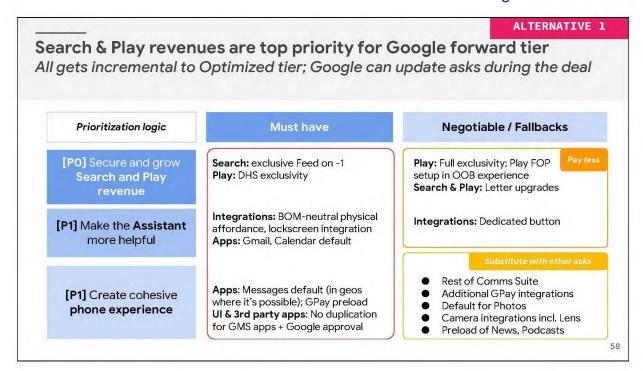
Other OEMs includes rampdown from Huawei RSA devices



13% Play and 17% Search growth for rest of ecosystem







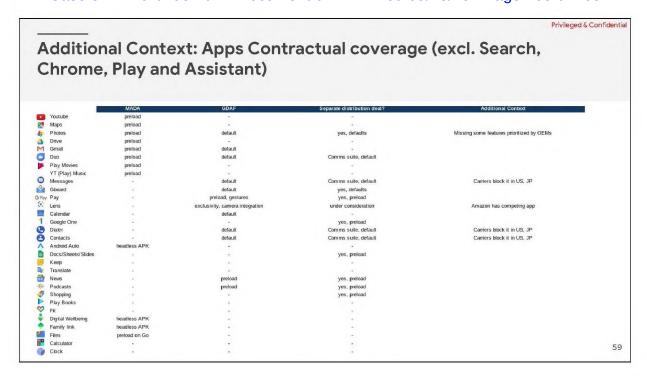


Exhibit A5 Public Redacted Version

EXHIBIT 6

FILED UNDER SEAL

EXHIBIT A5 to C. Cramer Declaration